

ATRISCO NO.5,
VOLCANO CLIFFS NO. 3,
AND
WALKER NO.1
WELL EQUIPMENT

INDEX OF DRAWINGS.

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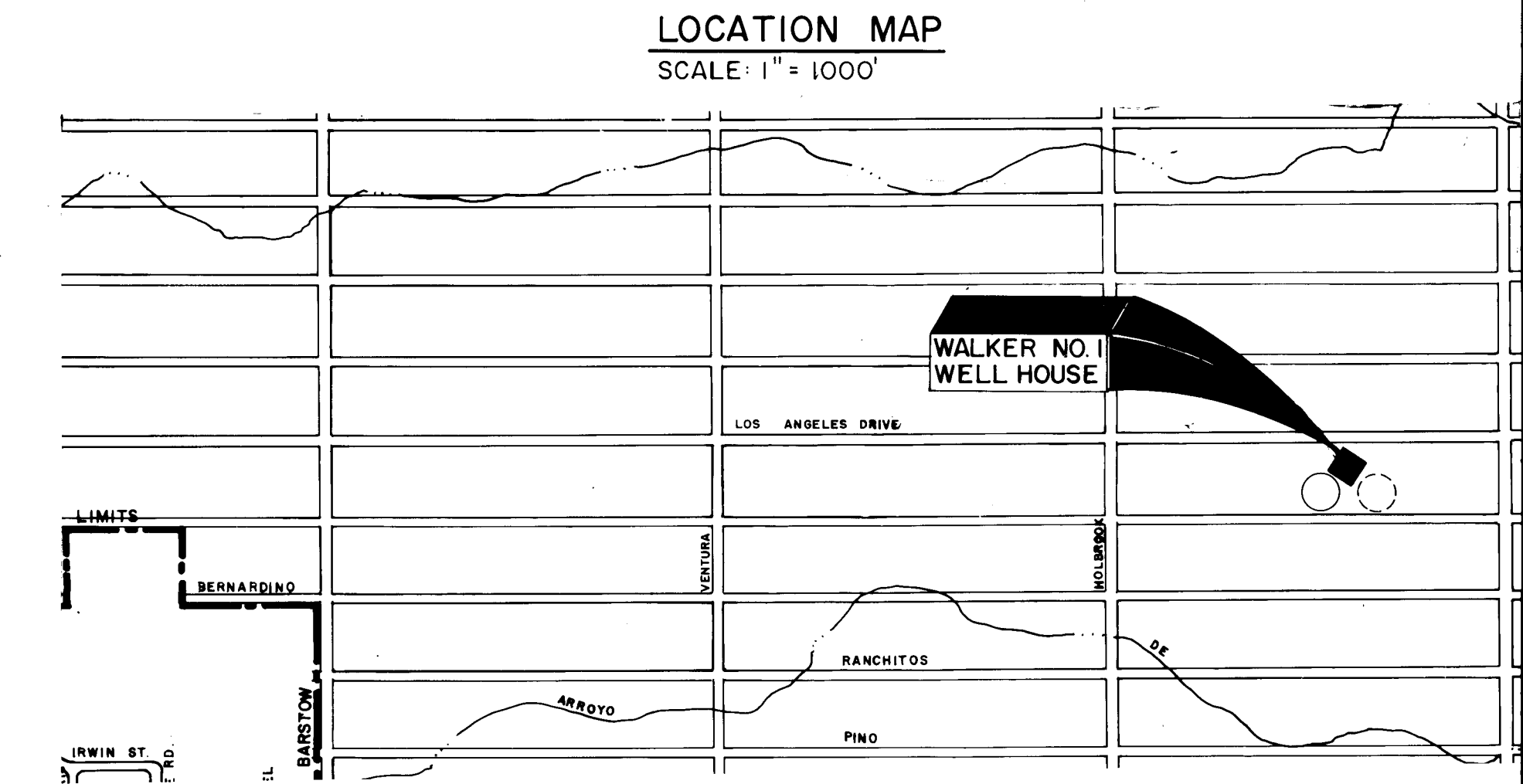
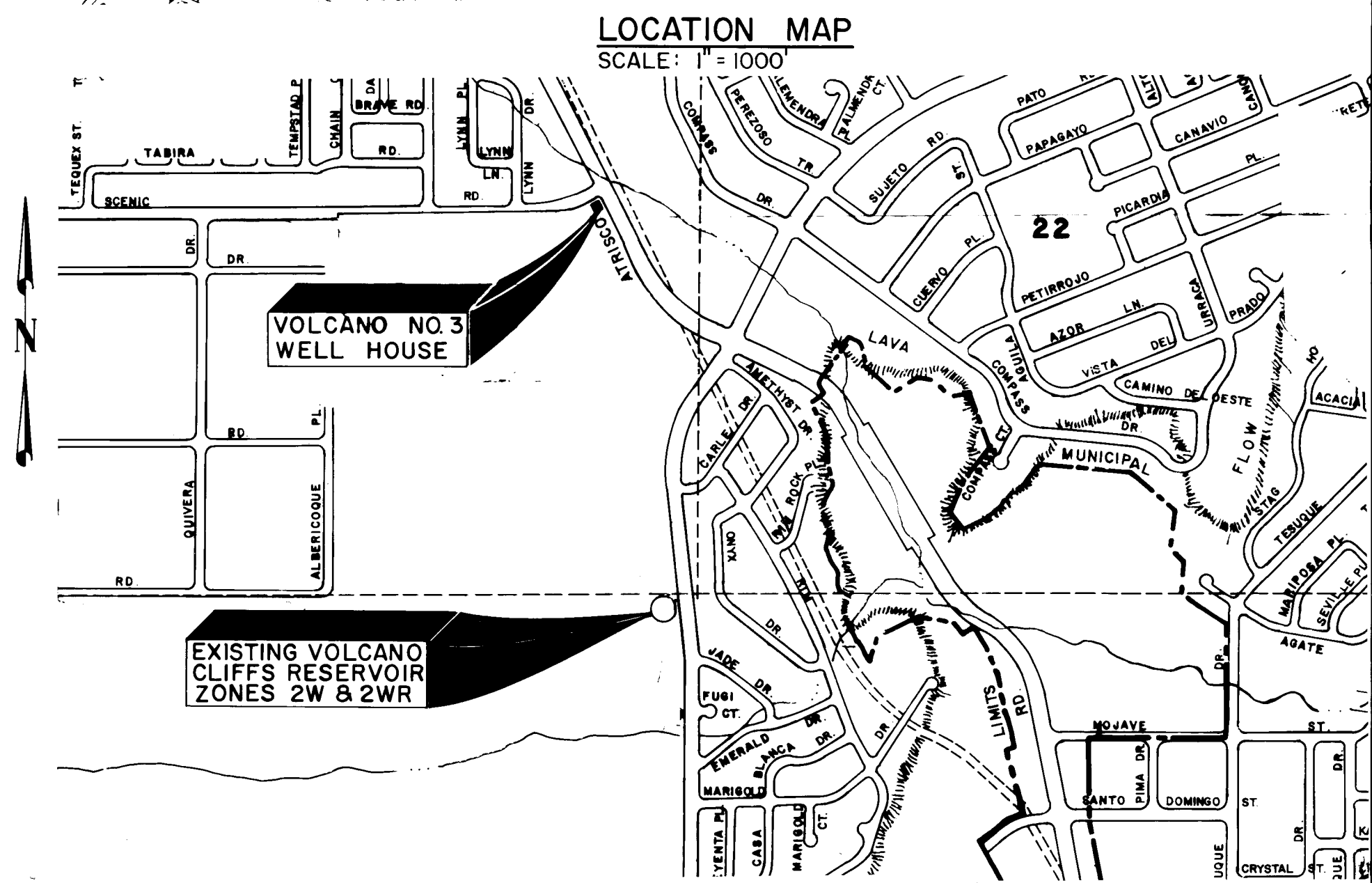
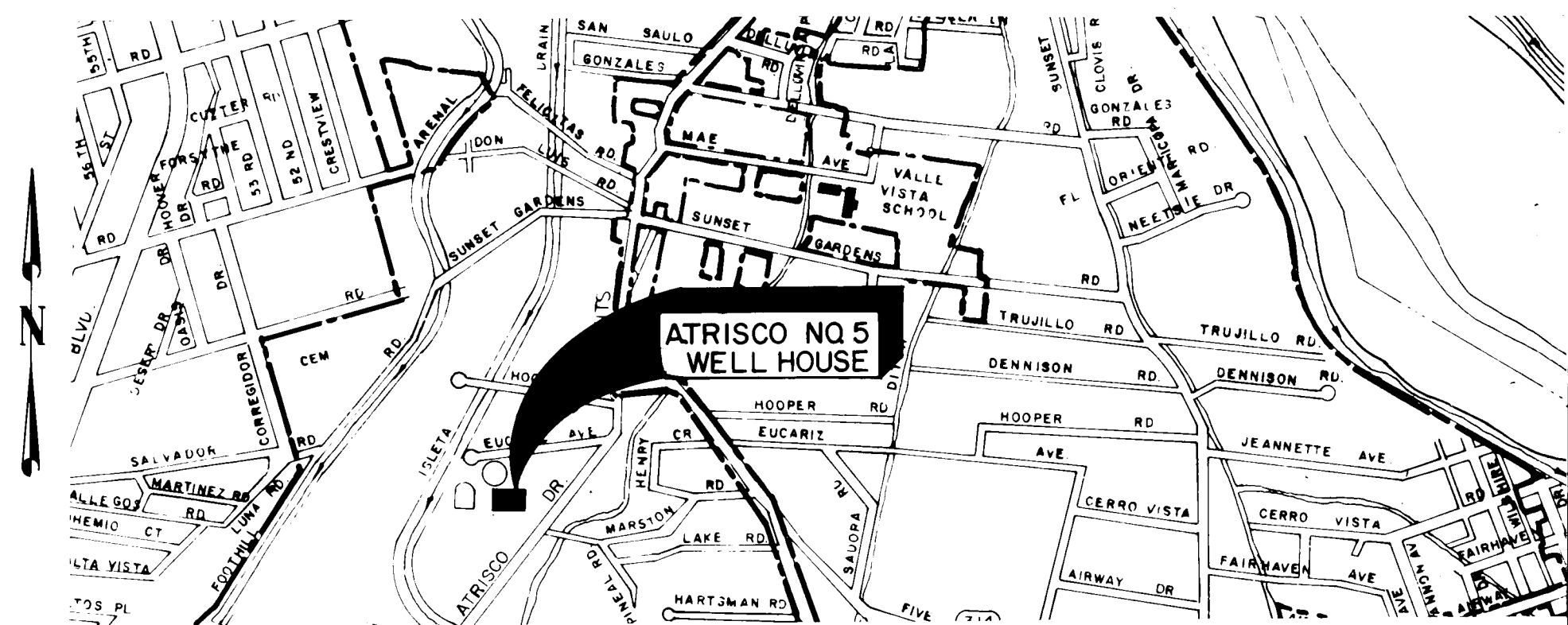
OCTOBER 1984

RECORD DRAWING
APR 4 1986

These drawings have been revised based on field data and are to be used as actually performed.

RECORD DRAWING INFORMATION	
CONTRACTOR:	BILL STOCKMAN CONST. CO.
INSPECTORS:	C. BARTOW - LH
ACCEPTANCE DATE FOR BENEFICIAL OCCUPANCY:	MARCH 1986
WORK STAGED BY:	LEEDSHILL - HERKENHOFF, INC.
FIELD VERIFICATION BY:	C. BARTOW - LH

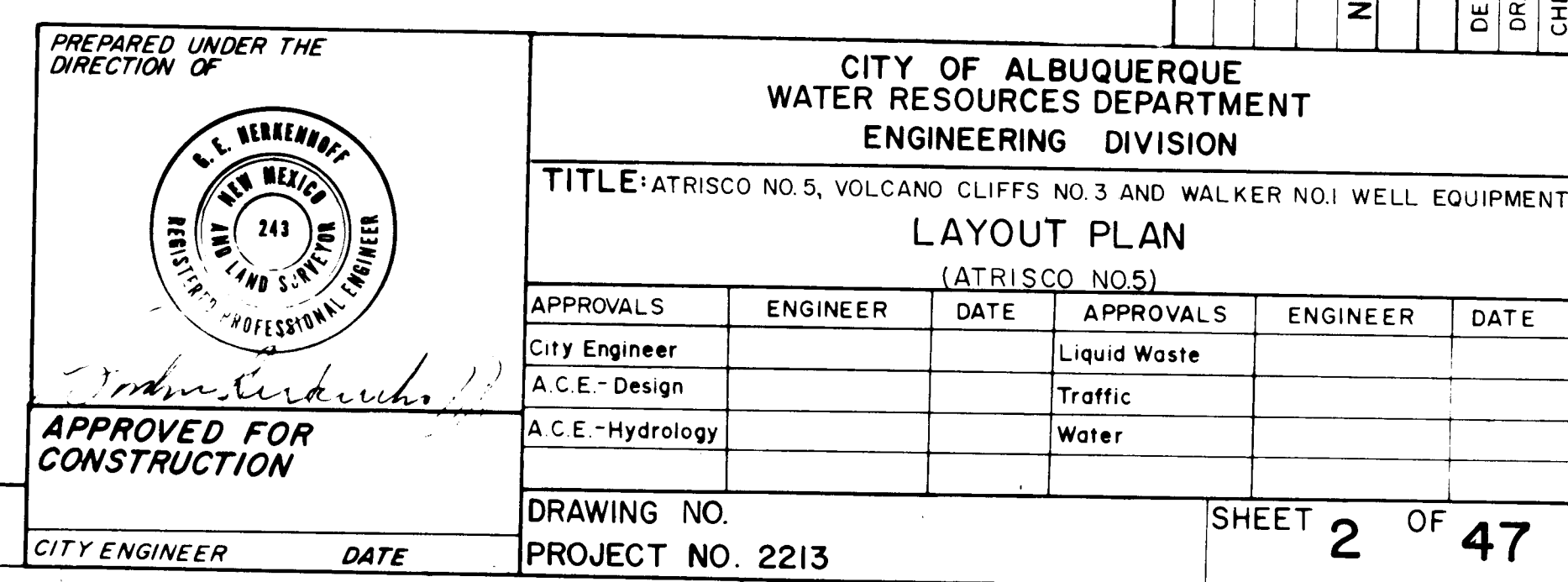
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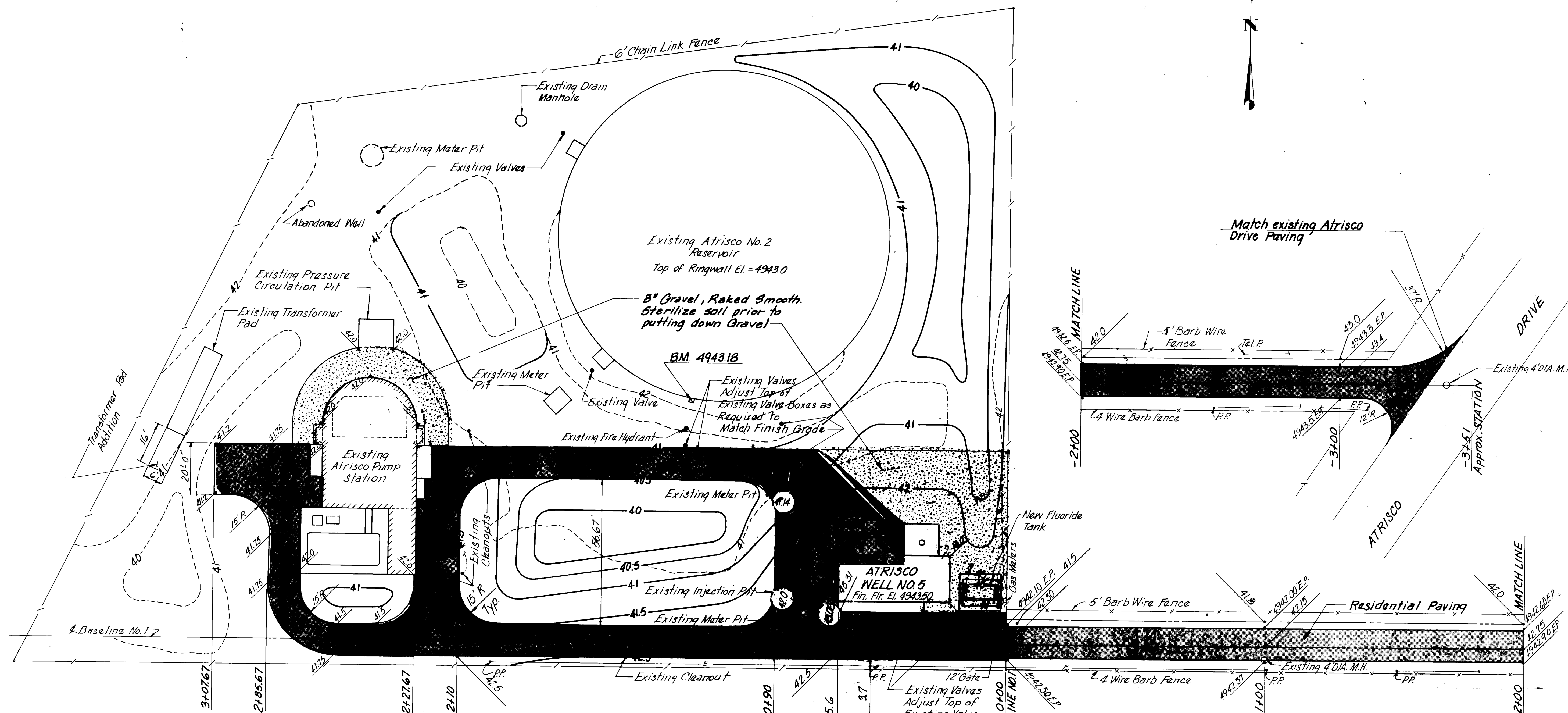


26 22130186

Arthur J. Stuart
July 16, 1986

REV	SHEET	CITY ENGINEER	DATE	USER DEPT	DATE	USER DEPT	DATE
RECORD DRAWING INFORMATION				APPROVAL OF REVISIONS			
CONTRACTOR: BILL STOCKMAN CONST. CO.				 LEEDSHILL - HERKENHOFF, INC. Copper Square, 500 Copper Ave. N.W. P.O. Box 1217 Albuquerque, New Mexico 87103 (505) 247-0294			
INSPECTORS: C. BARTOW - LH							
ACCEPTANCE DATE FOR BENEFICIAL OCCUPANCY: MARCH 1986				APPROVED FOR CONSTRUCTION			
WORK STAGED BY: LEEDSHILL - HERKENHOFF, INC.				PROJECT NO. 2213			
FIELD VERIFICATION BY: C. BARTOW - LH				SHEET 1 OF 47			

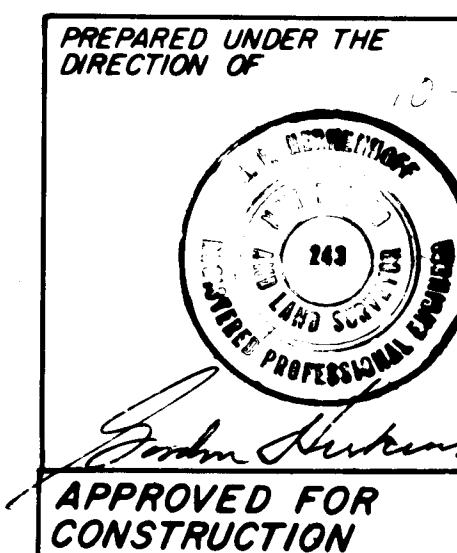




GRADING, PAVEMENT AND SURFACING PLAN
Scale: 1"=20'

RECORD DRAWING
Date APR 4 1986

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.



CITY ENGINEER	DATE
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CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

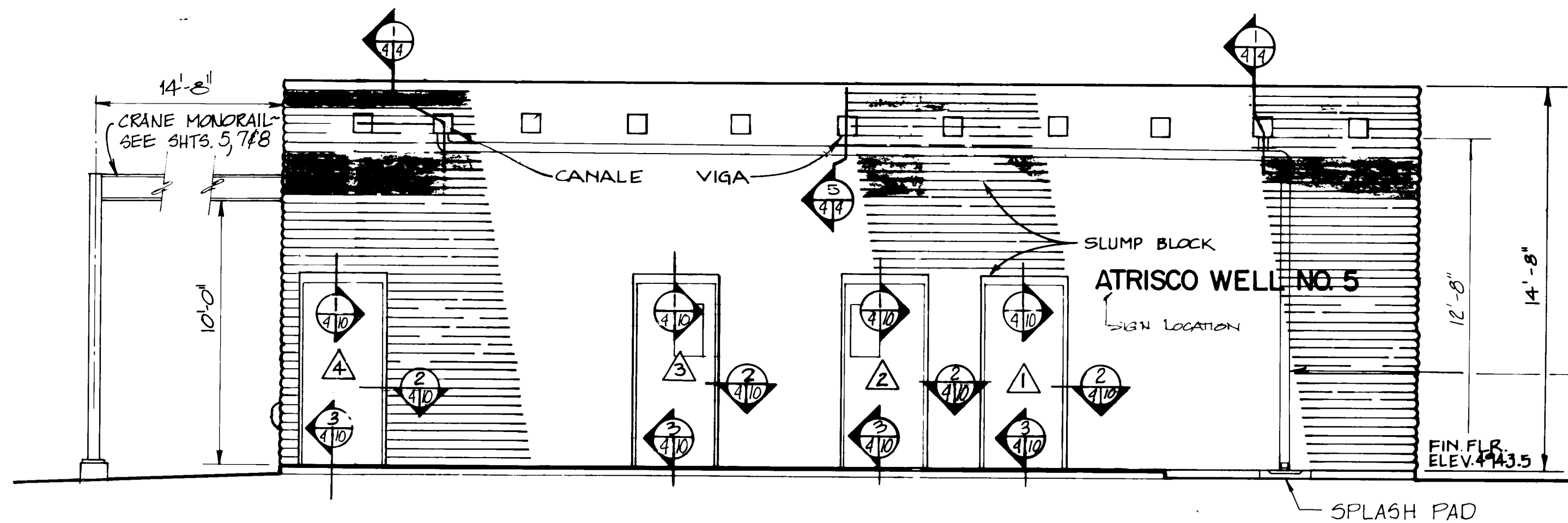
**TITLE: ATRISCO NO.5, VOLCANO CLIFFS NO.3 AND WALKER NO.1 WELL EQUIPMENT
GRADING, PAVEMENT AND SURFACING PLAN
(ATRISCO NO.5)**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

DRAWING NO.	
PROJECT NO.	2213

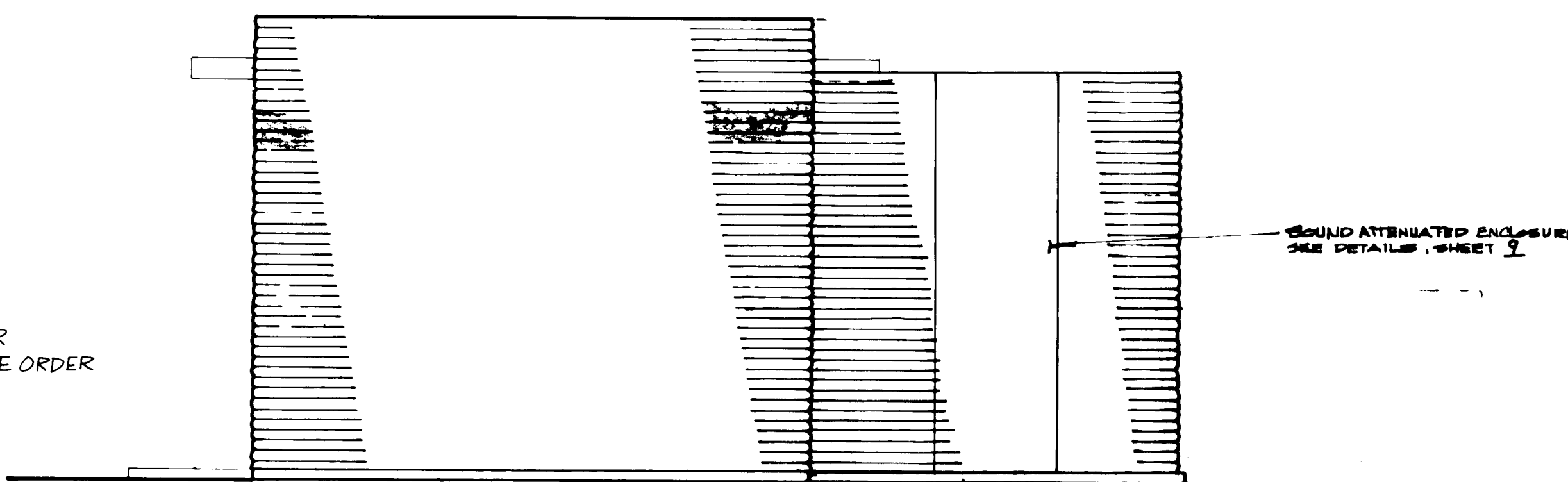
SHEET 3 OF 47

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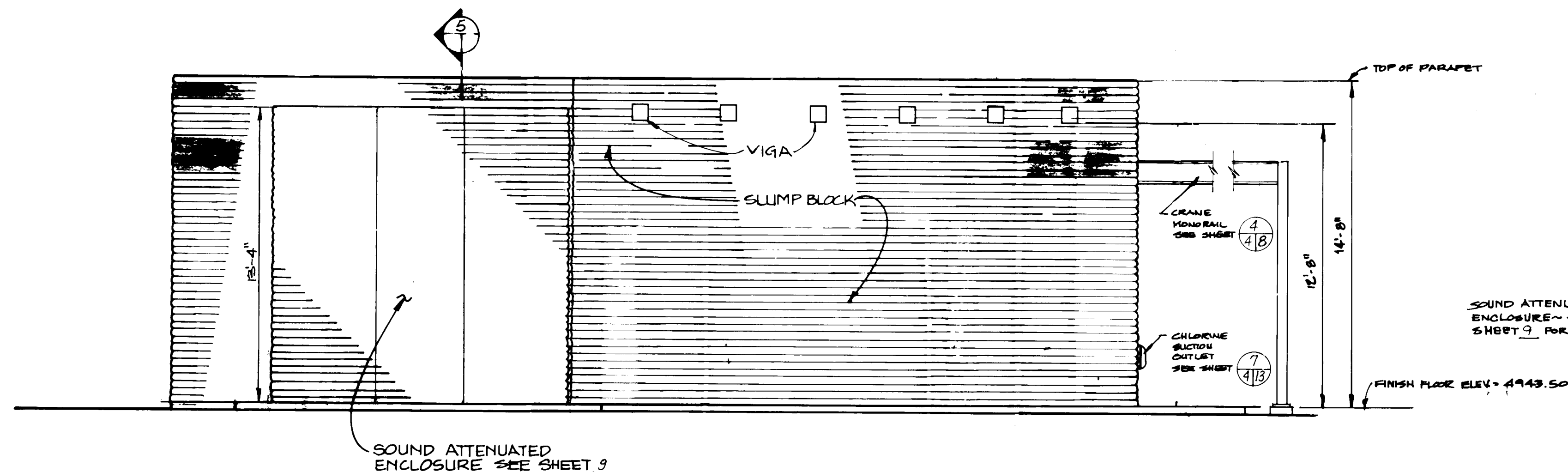
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SCALE: 1/4" = 1'-0"



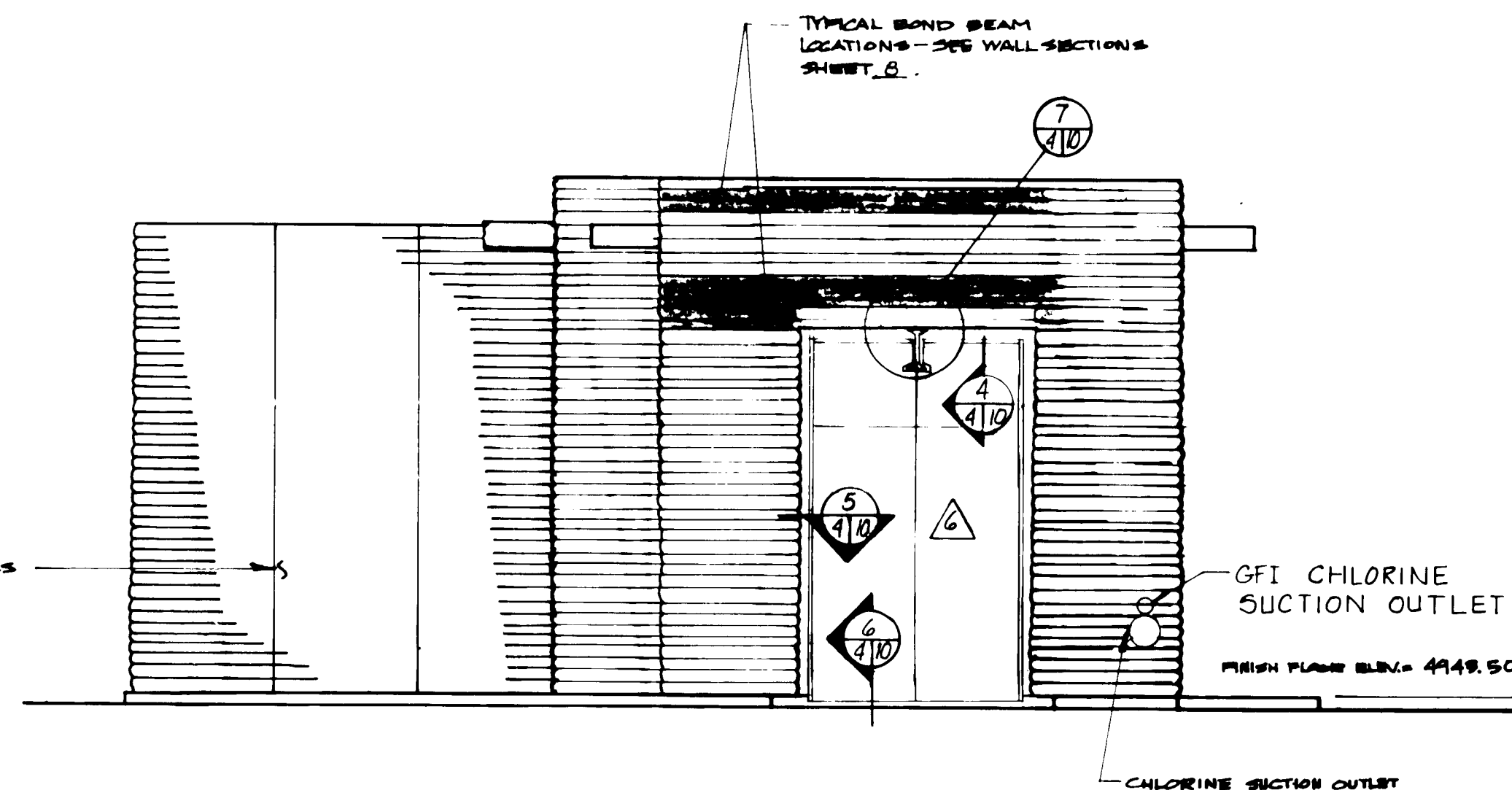
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SCALE: 1/4" = 1'-0"



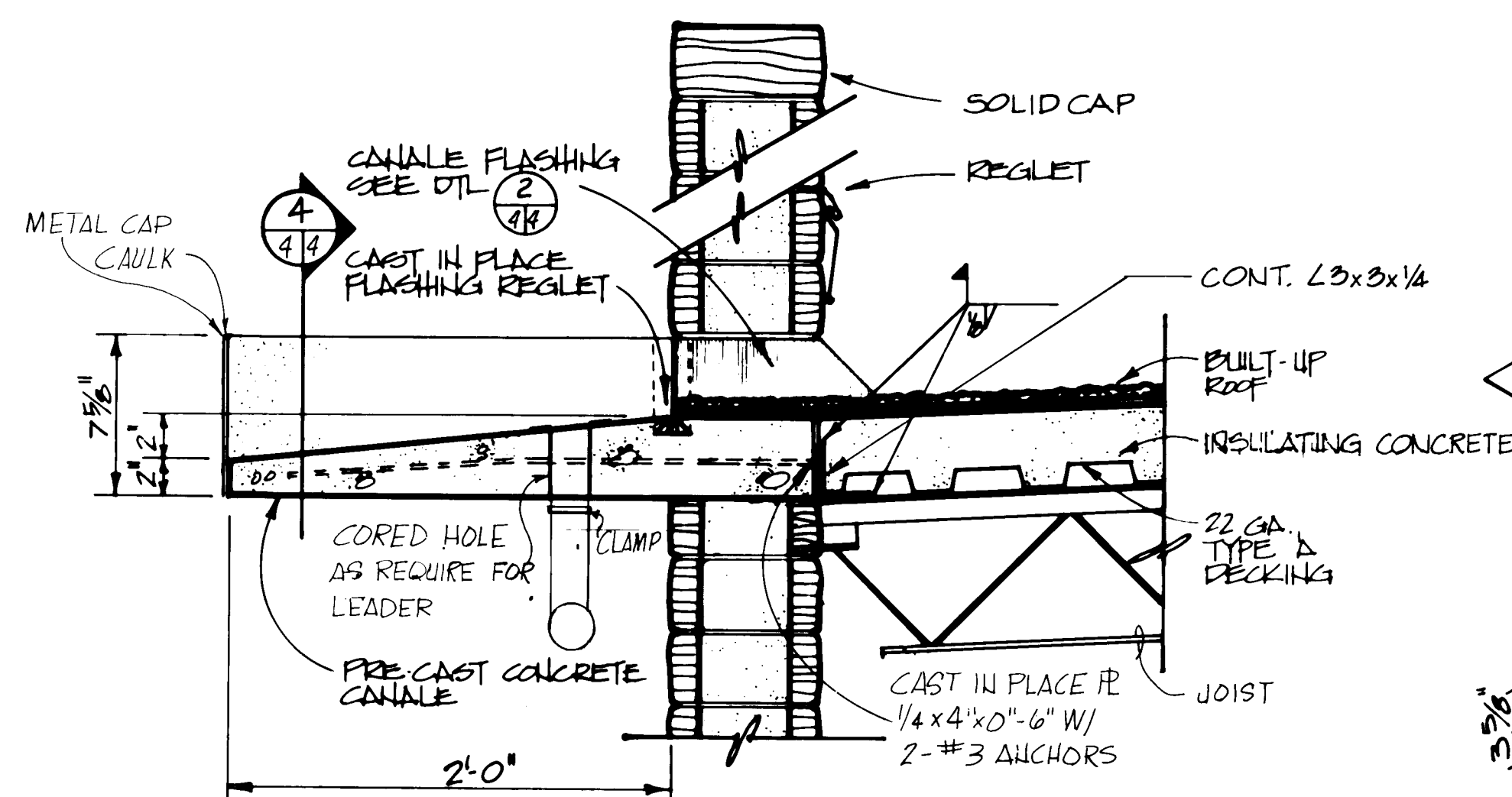
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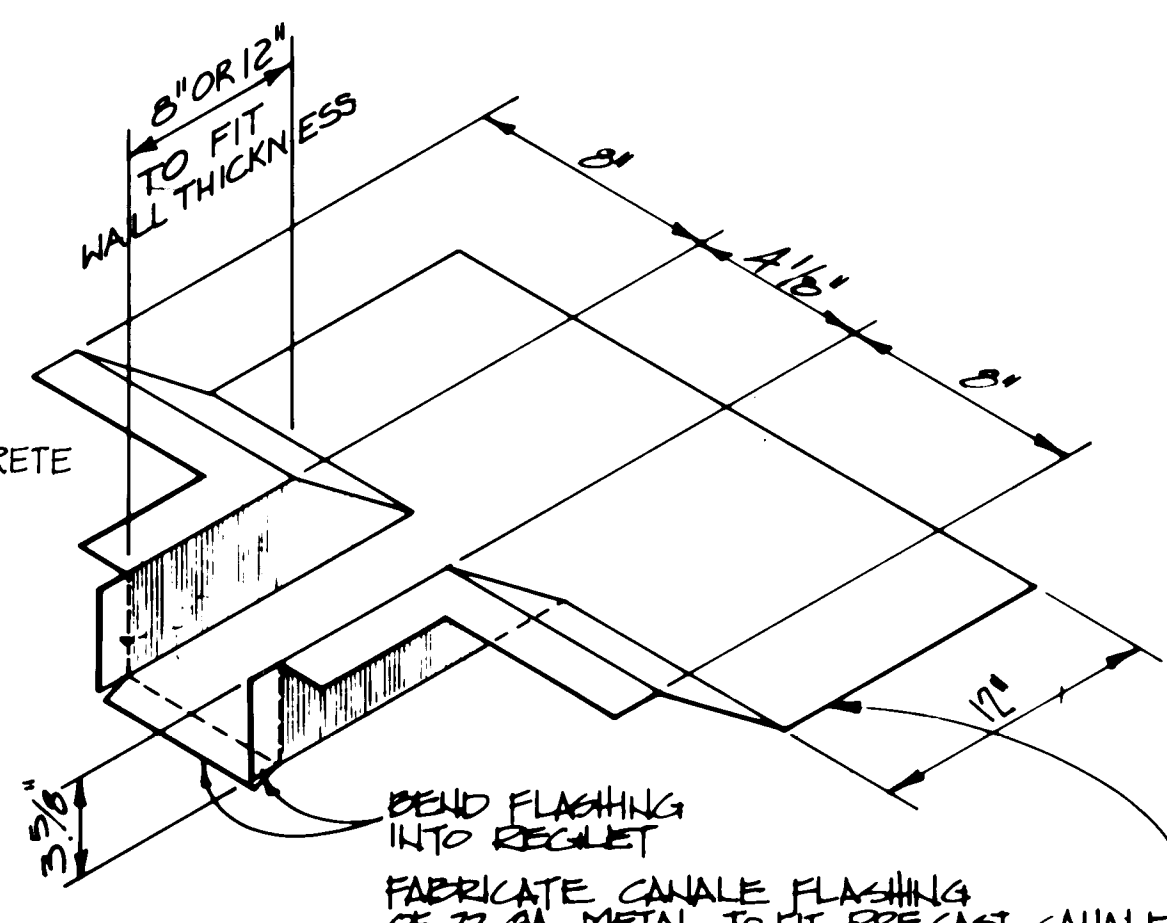
WEST ELEVATION

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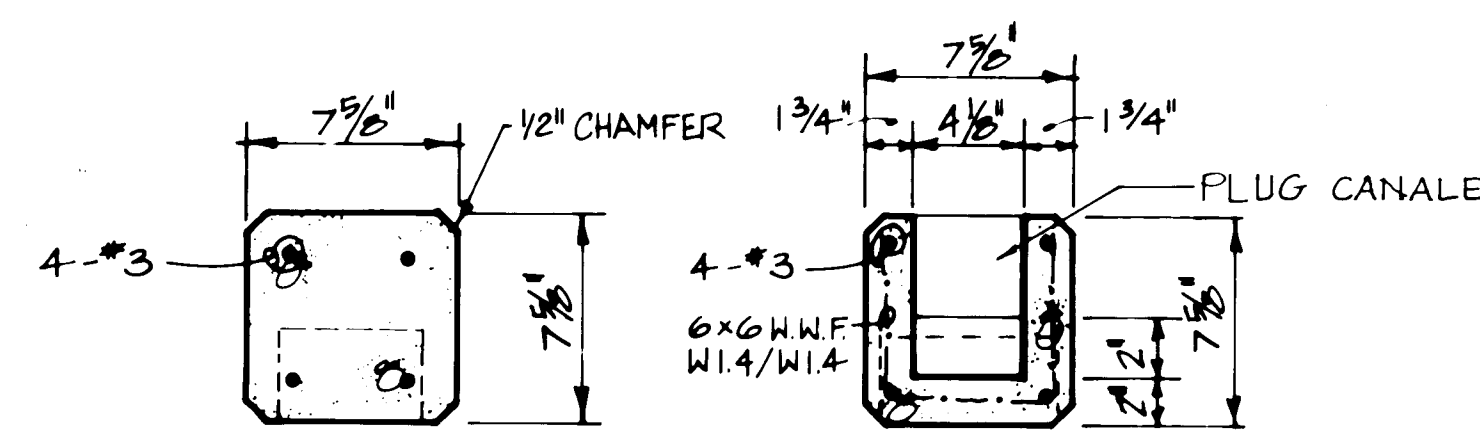
1 PRE-CAST CANALE

SCALE: 1/2" = 1'-0"



2 CANALE FLASHING

NO SCALE

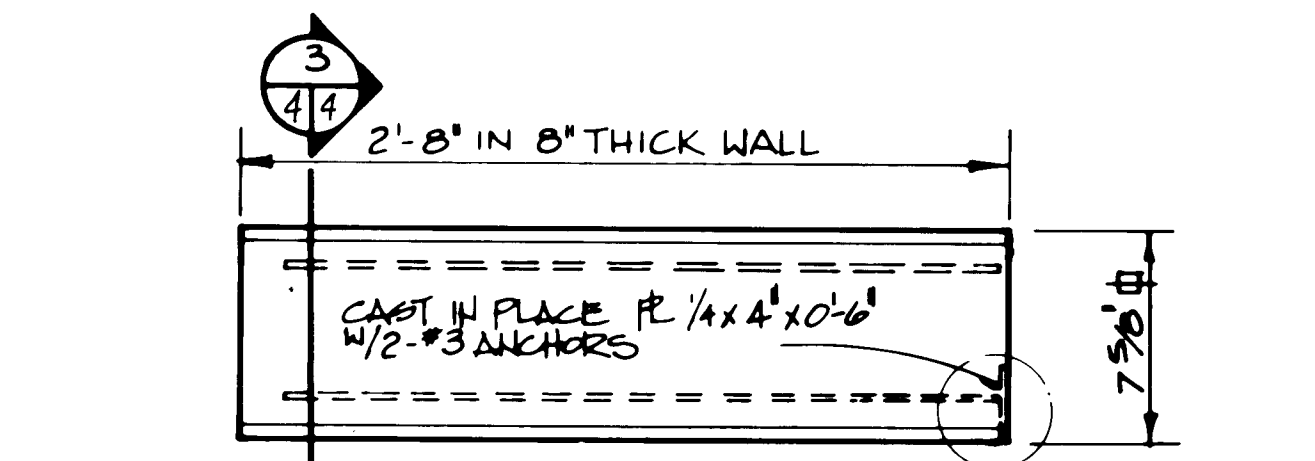


3 PRE-CAST VIGA SECT.

SCALE: 1/2" = 1'-0"

4 PRE-CAST CANALE SECT.

SCALE: 1/2" = 1'-0"



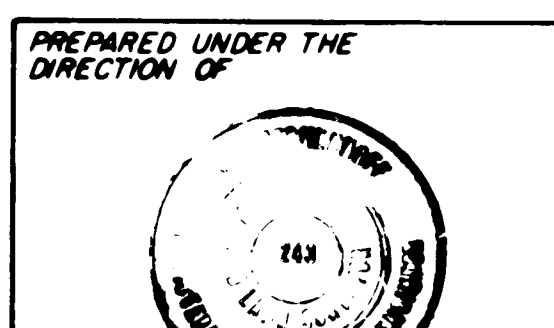
5 PRE-CAST VIGA

SCALE: 1/2" = 1'-0"

RECORD DRAWING
APR 1 1986

These drawings have been prepared based on field data and are not to be used for construction without the approval of the Engineer of Record.

26 22130486

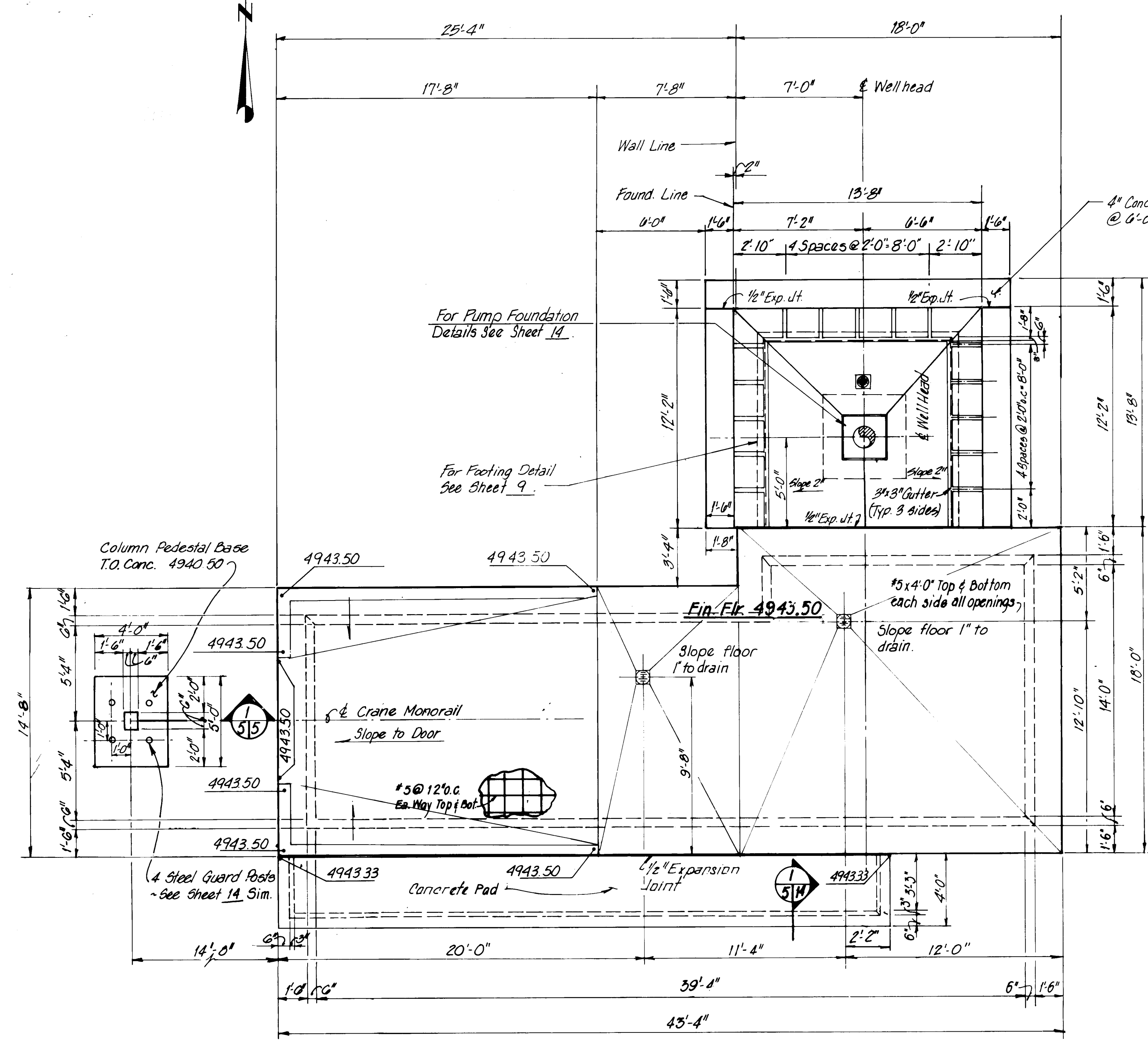


APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

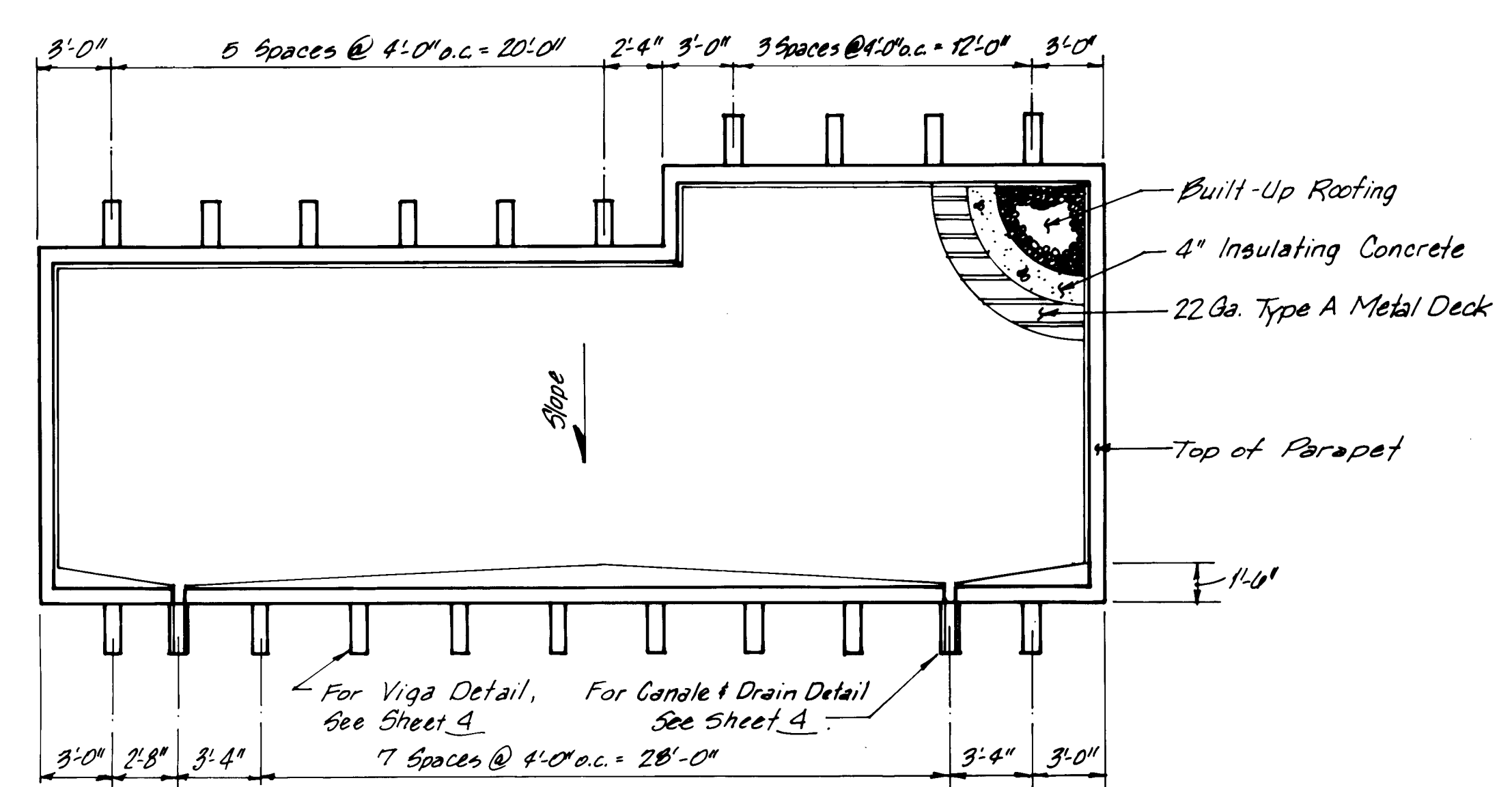
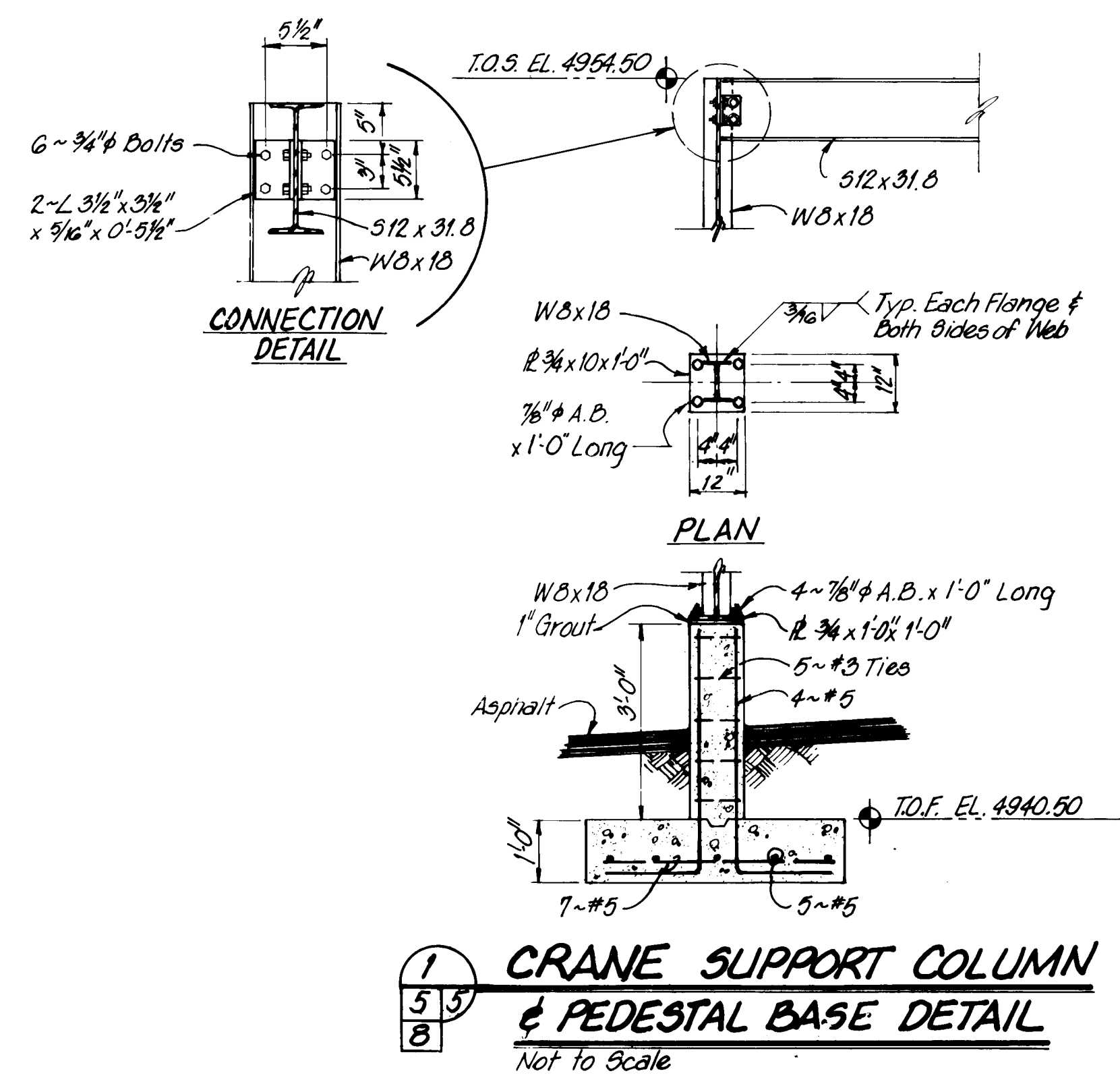
CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT ENGINEERING DIVISION					
TITLE: ATRISCO NO. 5, VOLCANO CLIFFS NO. 3 AND WALKER NO. 1 WELL EQUIPMENT BUILDING ELEVATIONS (ATRISCO NO. 5)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
ACE - Design			Traffic		
ACE - Hydrology			Water		
DRAWING NO. PROJECT NO. 2213			SHEET 4 OF 47		

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		REFERENCES		REMARKS	
CONTRACTOR: BULL STOCKMAN CONST. CO.	DATE: 3/86	STAKE: 100	DATE: 3/86	FIELD NO.	DATE	MAP NO.	EST. NO.	NO.	DATE
INSPECTOR: C. BARTOW - LH	DATE: 3/86	STAKE: 100	DATE: 3/86	FIELD NO.	DATE	MAP NO.	EST. NO.	NO.	DATE
VERIFICATION BY: J. BUTT - LH	DATE: 3/86	STAKE: 100	DATE: 3/86	FIELD NO.	DATE	MAP NO.	EST. NO.	NO.	DATE
CORRECTED BY: J. BUTT - LH	DATE: 3/86	STAKE: 100	DATE: 3/86	FIELD NO.	DATE	MAP NO.	EST. NO.	NO.	DATE
MICRO-FILM INFORMATION		RECORDED BY		DESIGNED BY		DRAWN BY		CHECKED BY	



**ATRISCO NO.5
FOUNDATION PLAN**
Scale: 1/4" = 1'-0"

NOTE: Slope floor 1" to floor drains (F.D.)



ROOF DRAINAGE PLAN
Scale: 3/16" = 1'-0"

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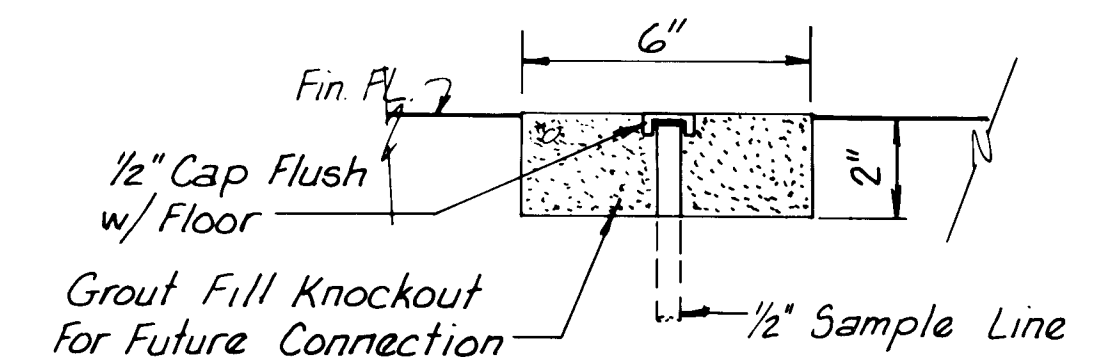
RECORD DRAWING
APR 4 1986
These drawings are prepared based on field data and every reasonable attempt has been made to depict construction as actually performed.

CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT ENGINEERING DIVISION					
TITLE: ATRISCO NO.5, VOLCANO CLIFFS NO.3 AND WALKER NO.1 WELL EQUIPMENT FOUNDATION PLAN, DETAILS AND ROOF DRAINAGE PLAN (ATRISCO NO.5)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		
DRAWING NO. PROJECT NO. 2213		SHEET 5 OF 47			

EQUIPMENT SCHEDULE

- 1 Discharge Assembly and Pump w/ Reducer as Required
- 2 Mercoid Pressure Switch and Pressure Gage See 5/613
- 3 No-flow Electrode, Mount in top of Pipe, 6" from wall (Min)
- 4 55 Gal. Oil Drum (Pump Gear Oil) See 6/13 & 2/613
- 5 Future Fluoride Metering Pump
- 6 Chlorinator
- 7 Future Fluoride Analyzer (Stub and Cap Sample Line)
- 8 Chlorine Scale - Dial (Mount on Wall @ 4'-0")
- 9 Cross w/ Stand by Pressure Relief Valve and Vent to Outside
- 10 Chlorine Tank Manifold Header and Header Guard
- 11 1 Ton Chlorine Cylinder (Supplied with Gas)
- 12 Hydraulic Load Cell Scale
- 13 Chlorine Piping Support - See Sheet 12
- 14 Chlorine Leak Detector - Mount 1'-0" above Finished Floor
- 15 Water Detector - Mount in bottom of pipe
- 16 Cap 6" above floor
- 17 Fire Extinguisher
- 18 Procedures enclosure, See detail Sheet 11
- 19 Pipe Stand
- 20 See Flush Capping Detail This Sheet

NOTE: See Electrical drawings for Electrical Equipment layout



PIPING FITTING SCHEDULE

- 1 12 x 14 Reducer
- 2 14" Spool FL x FL
- 3 1/4" Flexible Coupling with Restraints
- 4 14 x 14 x 12 Tee FL x FL w/ Adjustable Pipe Support
- 5 14" Butterfly Valve (Motorized)
- 6 14"-45° Bend FL x FL
- 7 12" Spool FL x FL
- 8 2" Air & Vacuum Relief Valve (Pipe to drain w/ 8" Air Gap) w/ 2" Gate Valve
- 9 12" Butterfly Valve (Motorized)
- 10 2" Tap in side of pipe, Route line to 2
- 11 12"-45° Bend FL x FL

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PREPARED UNDER THE
DIRECTION OF



APPROVED FOR
CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

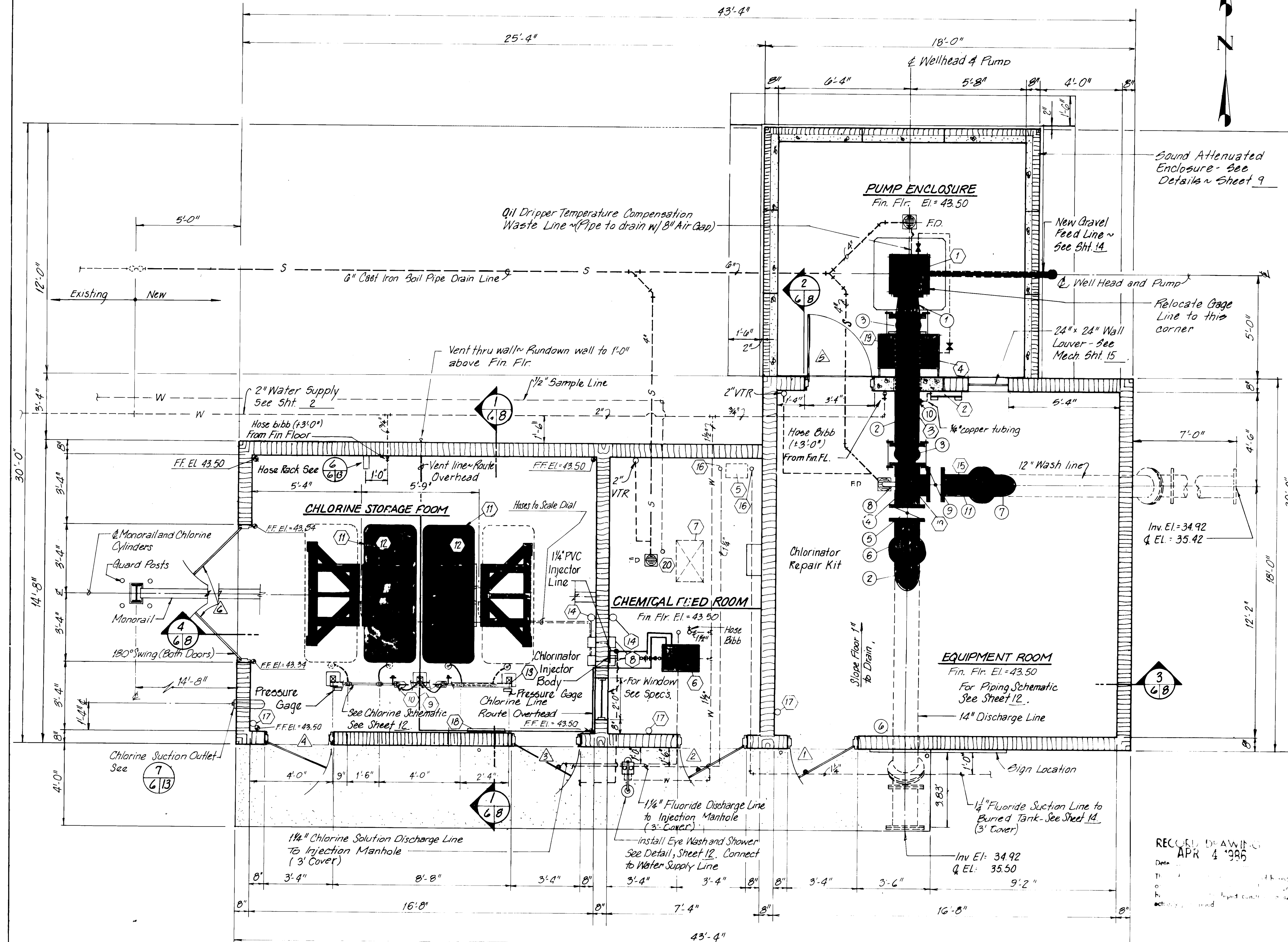
TITLE: ATRISCO NO. 5, VOLCANO CLIFFS NO. 3 AND WALKER NO. 1 WELL EQUIPMENT

FLOOR AND PIPING PLAN
(ATRISCO NO. 5)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

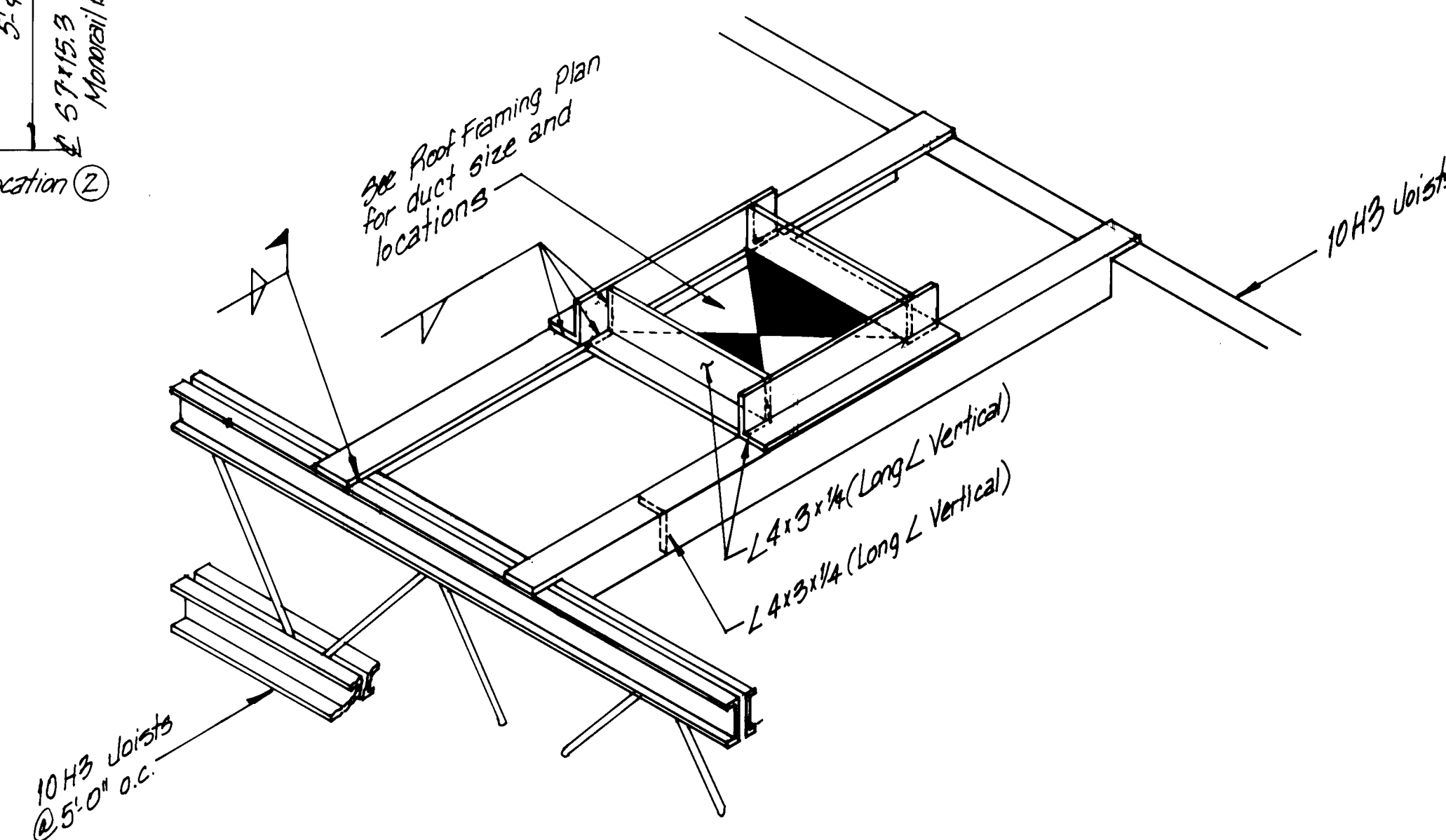
DRAWING NO.
PROJECT NO. 2213

SHEET 6 OF 47



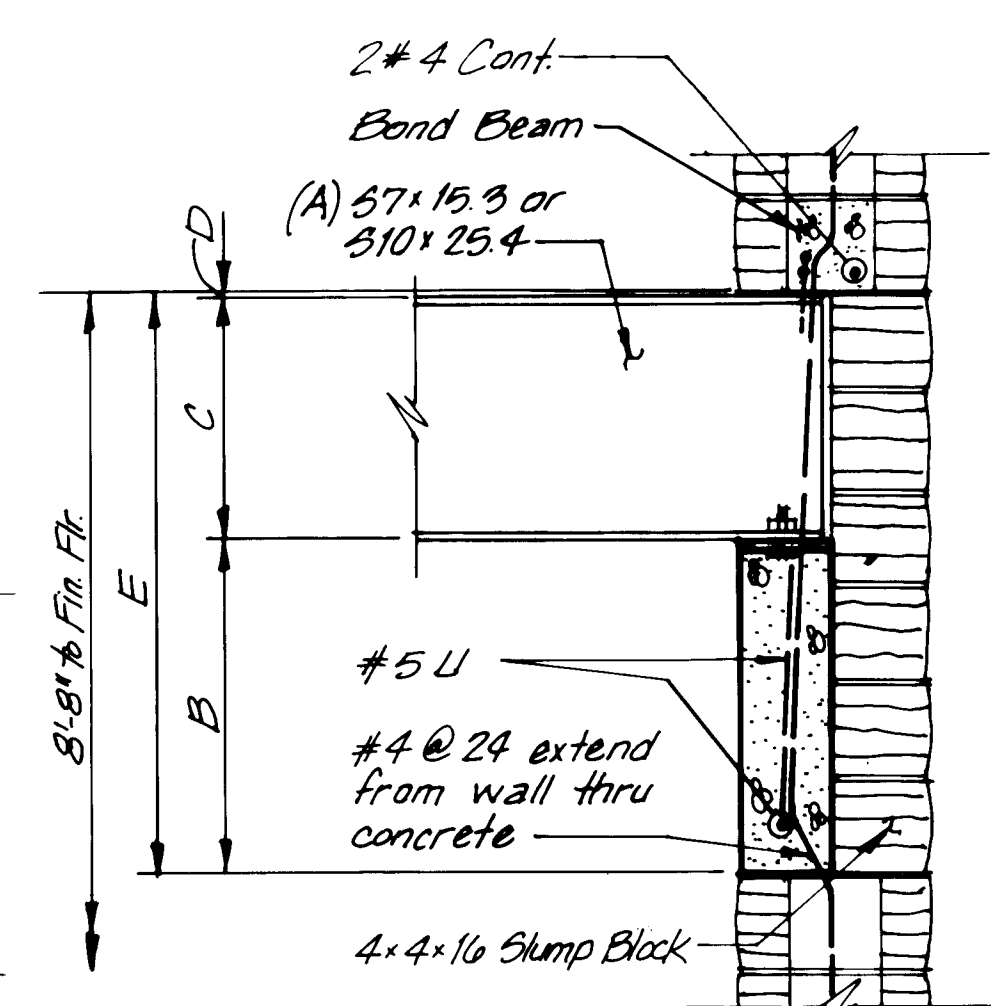
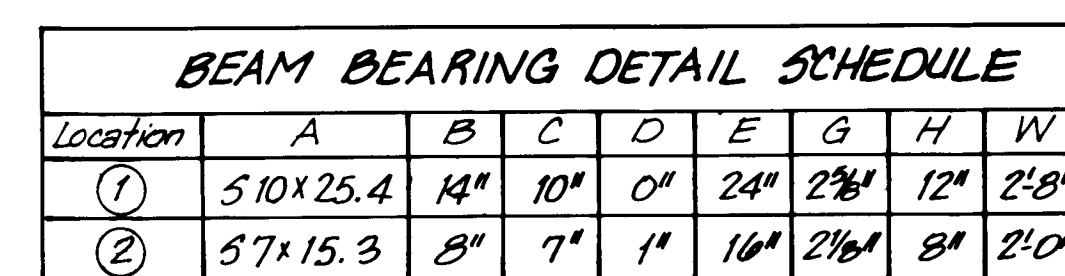
RECORDED DRAWING
APR 4 1986

Arthur J. Leland
July 16, 1986



Not to Scale

Scale: $3/8" = 1'-0"$



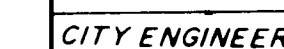
1 BEAM BEARING DETAIL
 77 Scale: $1\frac{1}{2}" = 1'-0"$



2 BEAM CONNECTION
Scale: 3" = 1'-0"

Date APR 4 1986

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction actually performed.

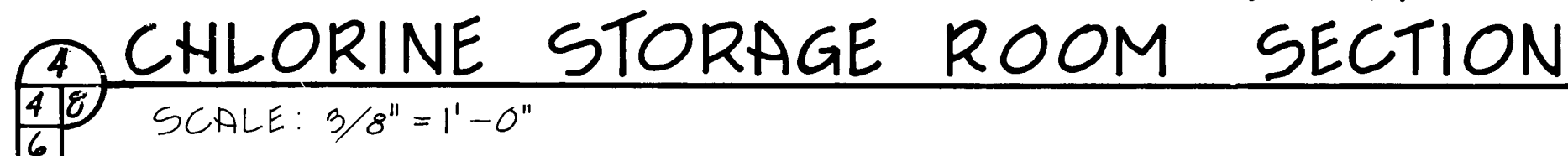
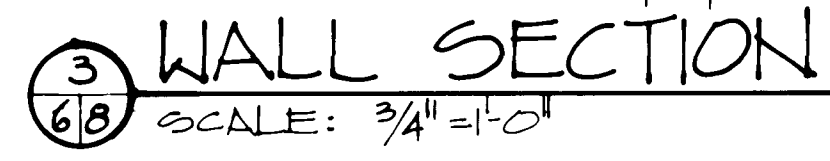
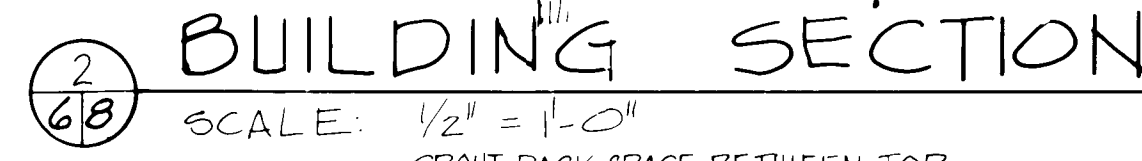
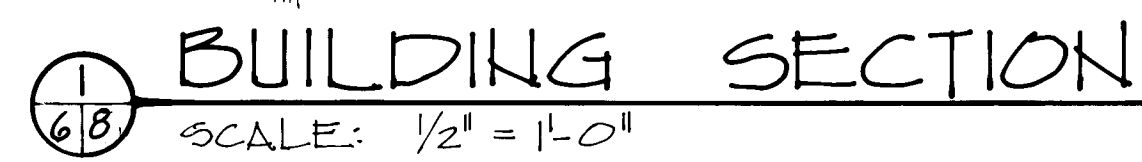


Arthur J. Stuenkel
July 16, 1986

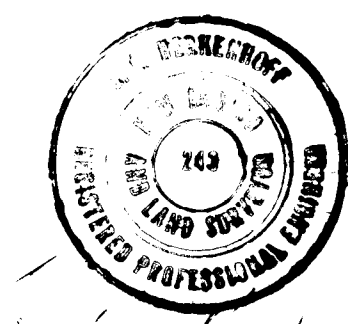
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City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E - Hydrology			Water		

DRAWING NO.	SHEET 7 OF 47
PROJECT NO. 2213	

[illegible]



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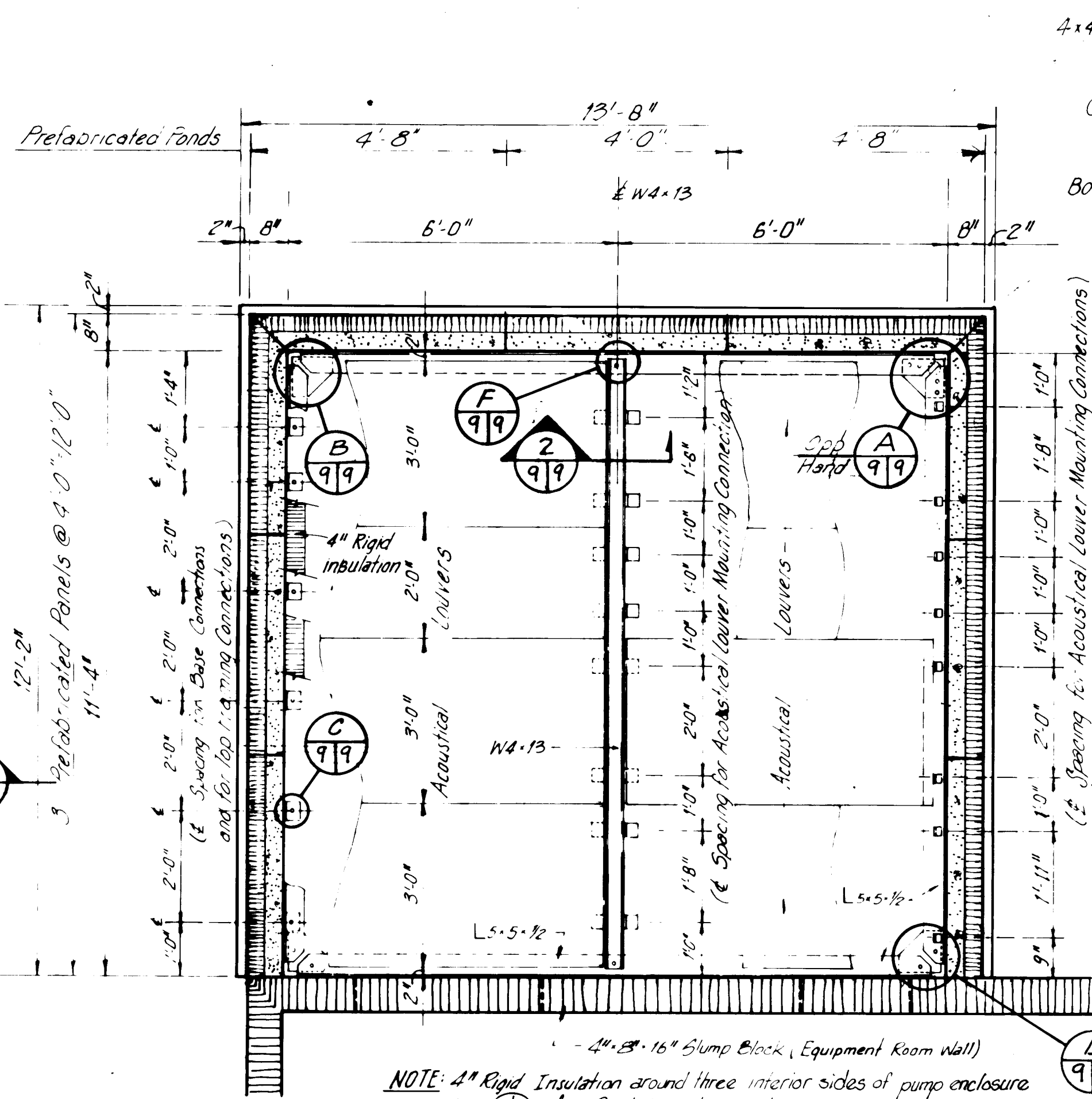


CITY ENGINEER DATE

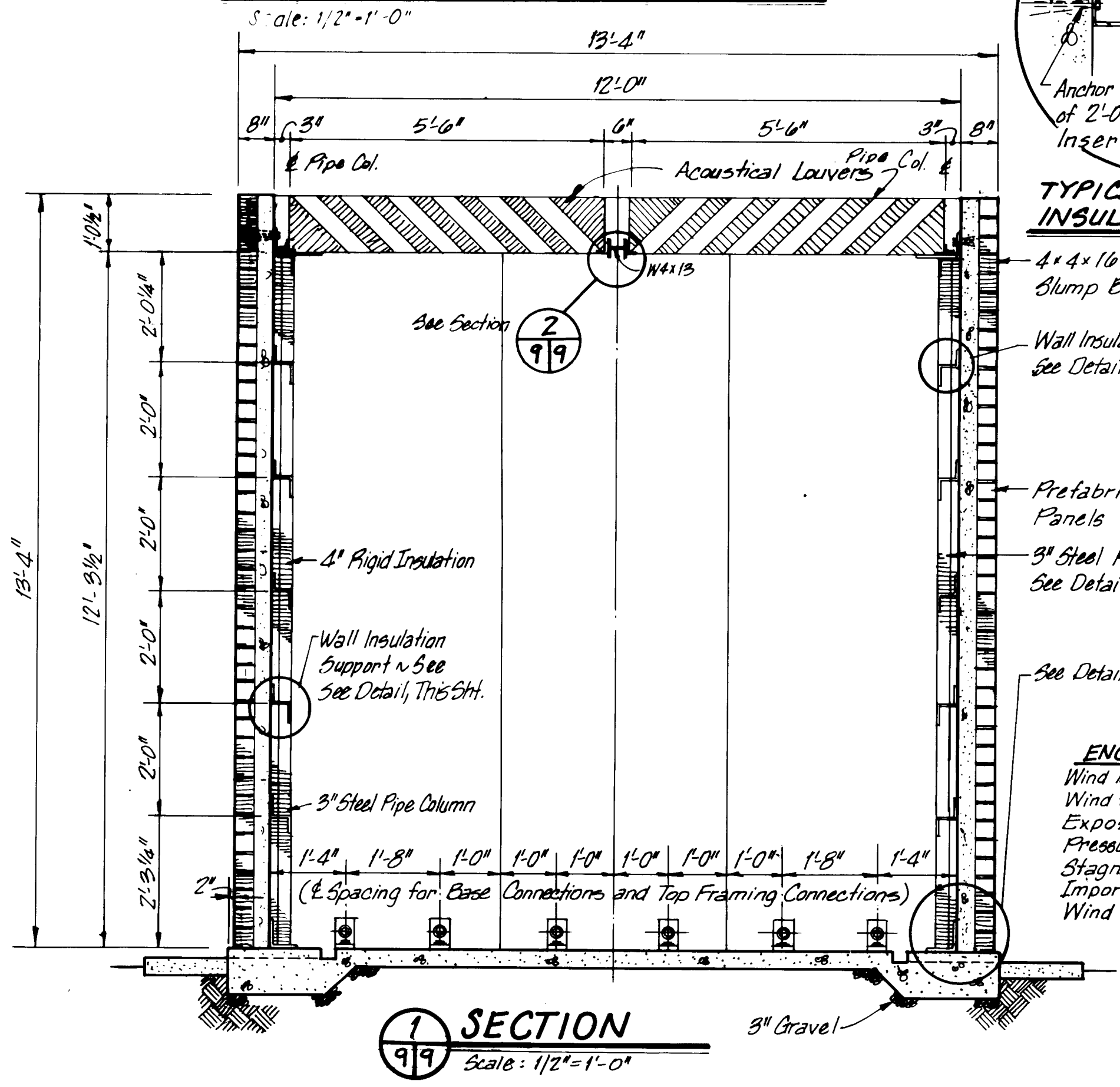
(ATRISCO N05)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
	City Engineer		Liquid Waste		
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	A C E -Hydrology		Water		

DRAWING NO.	SHEET	8	OF	47
PROJECT NO. 2213				

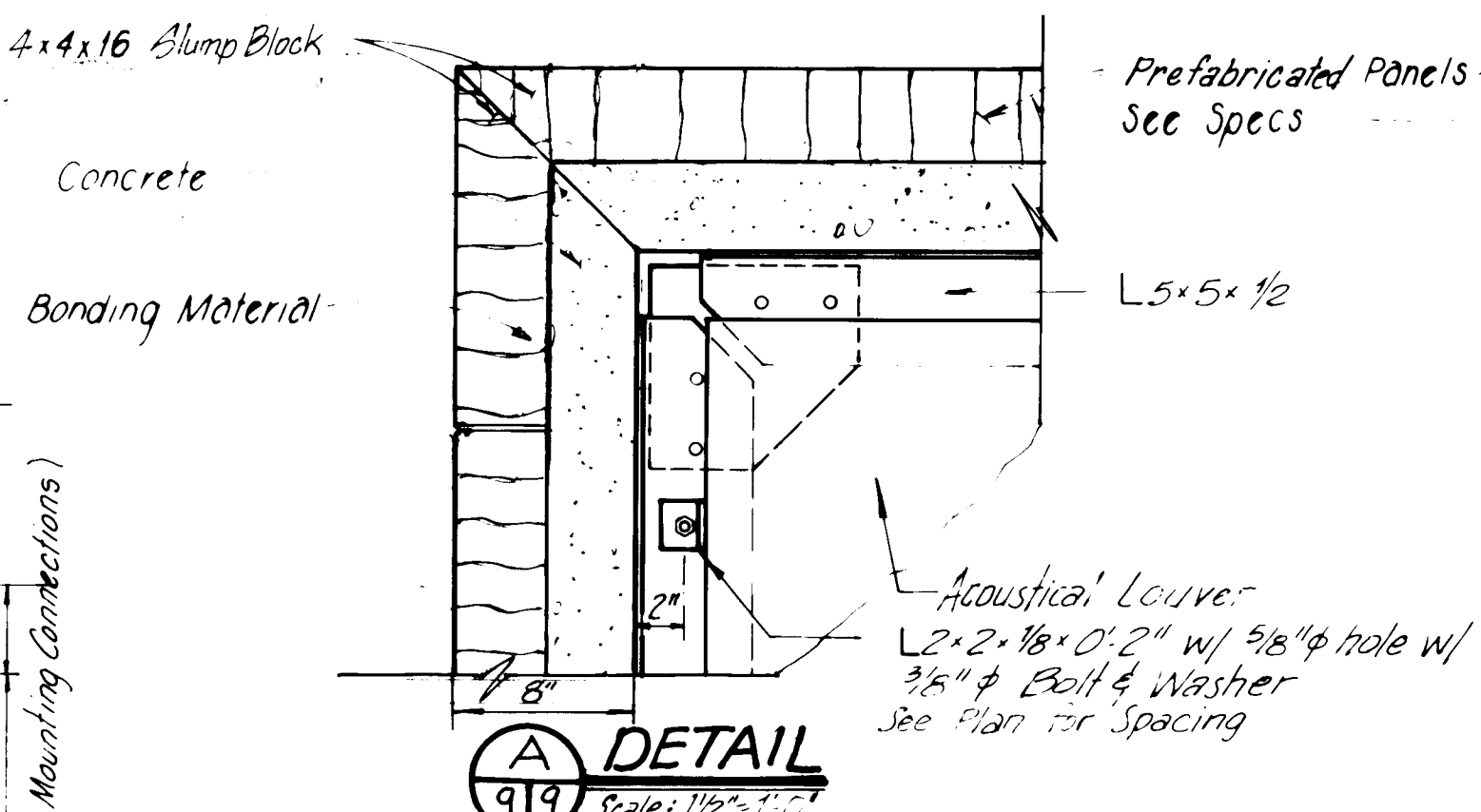
NO.		DATE	REMARKS	BY
<i>REVIEWS</i>				
DESIGN				
DESIGNED BY		DATE		
DRAWN BY		DATE		
CHECKED BY		DATE		



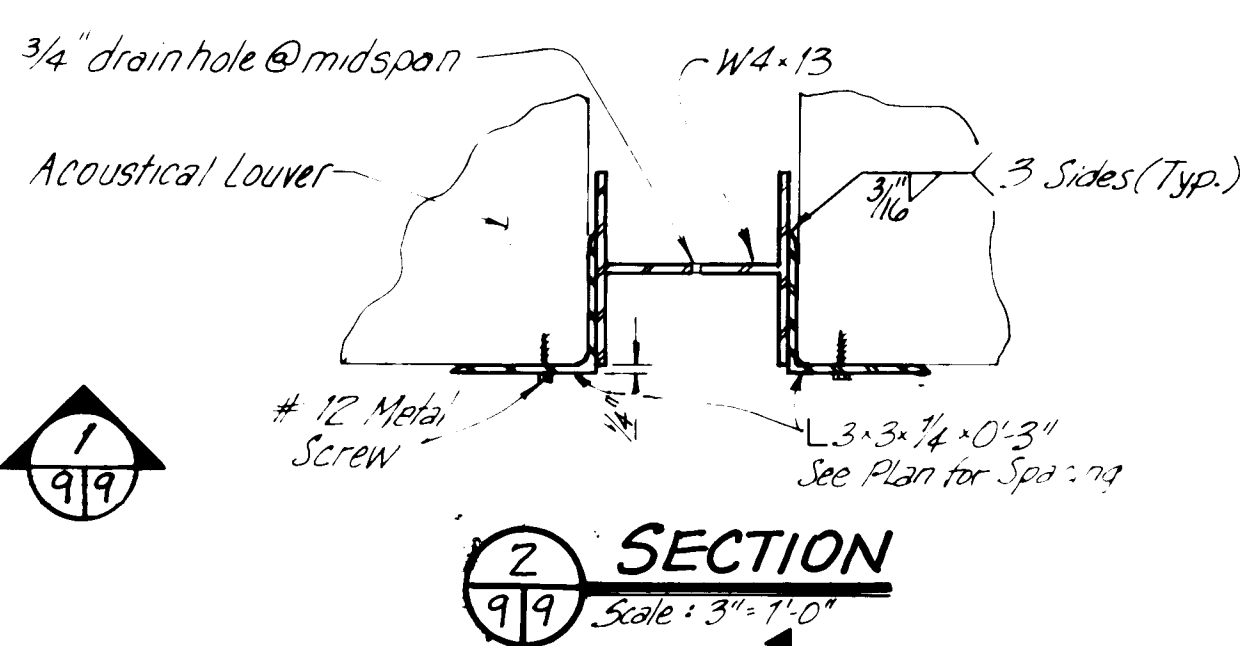
PLAN- PUMP ENCLOSURE
Scale: 1/2" = 1'-0"



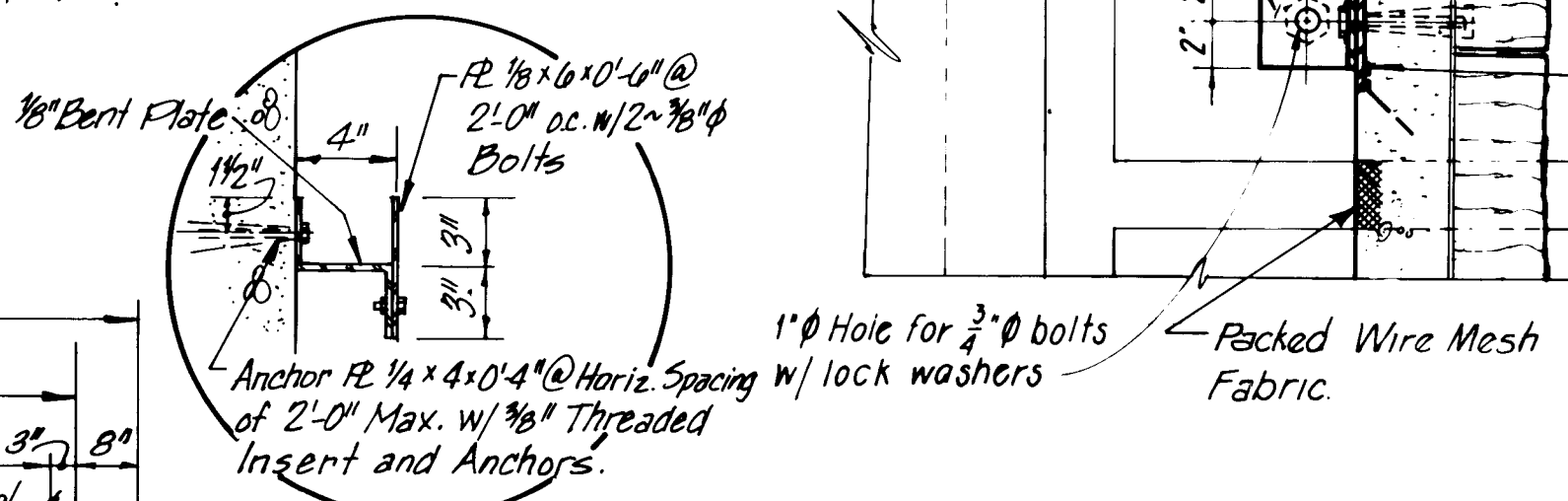
SECTION 1
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DETAIL A
Scale: 1/2" = 1'-0"

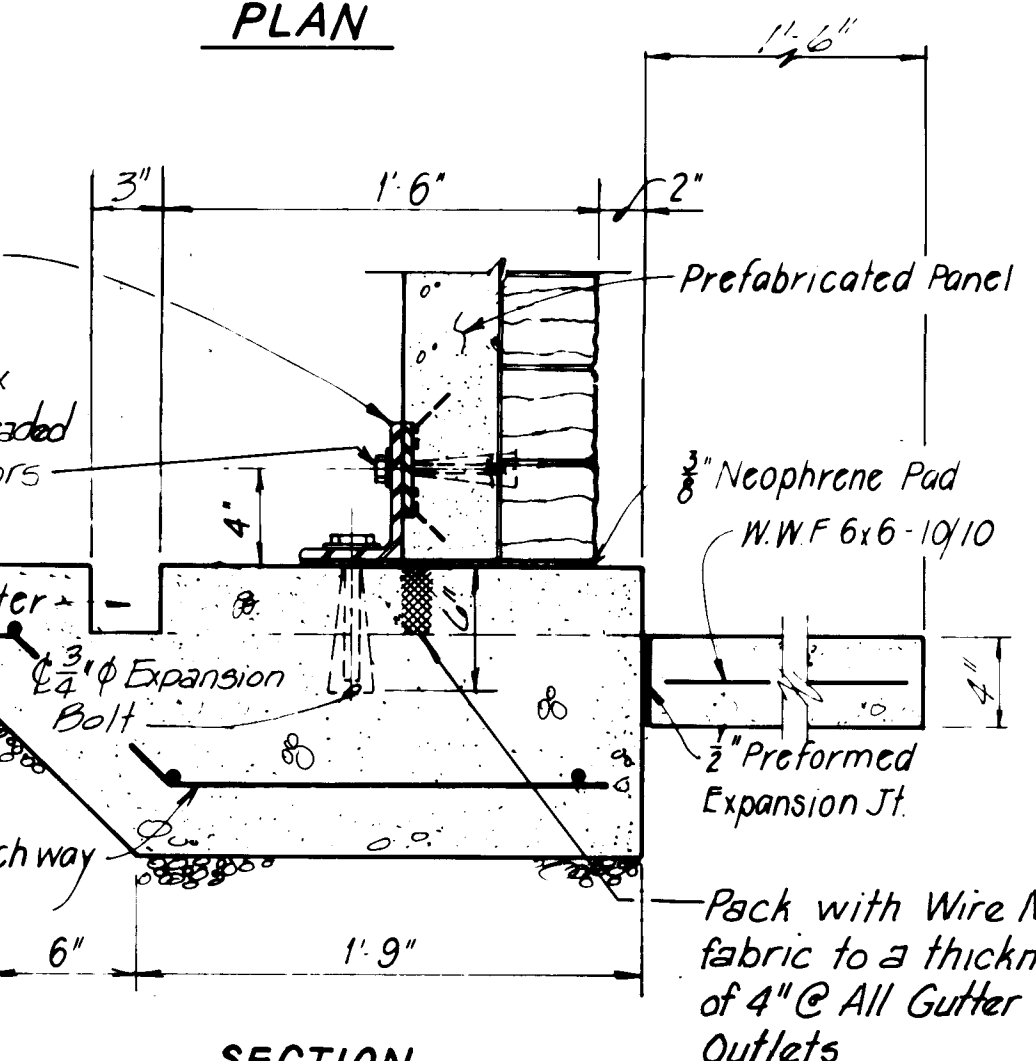


SECTION 2
Scale: 3/4" = 1'-0"



TYPICAL WALL INSULATION SUPPORT DETAIL
Not to Scale

ENCLOSURE DESIGN CRITERIA
Wind Design by Projected Area Method
Wind Speed = 70 mph
Exposure C
Pressure Coefficient
Stagnation Pressure
Importance Factor
Wind Pressure
Ce = 1.2
Cq = 1.3
qs = 19 psf
I = 1.0
p = 20 psf

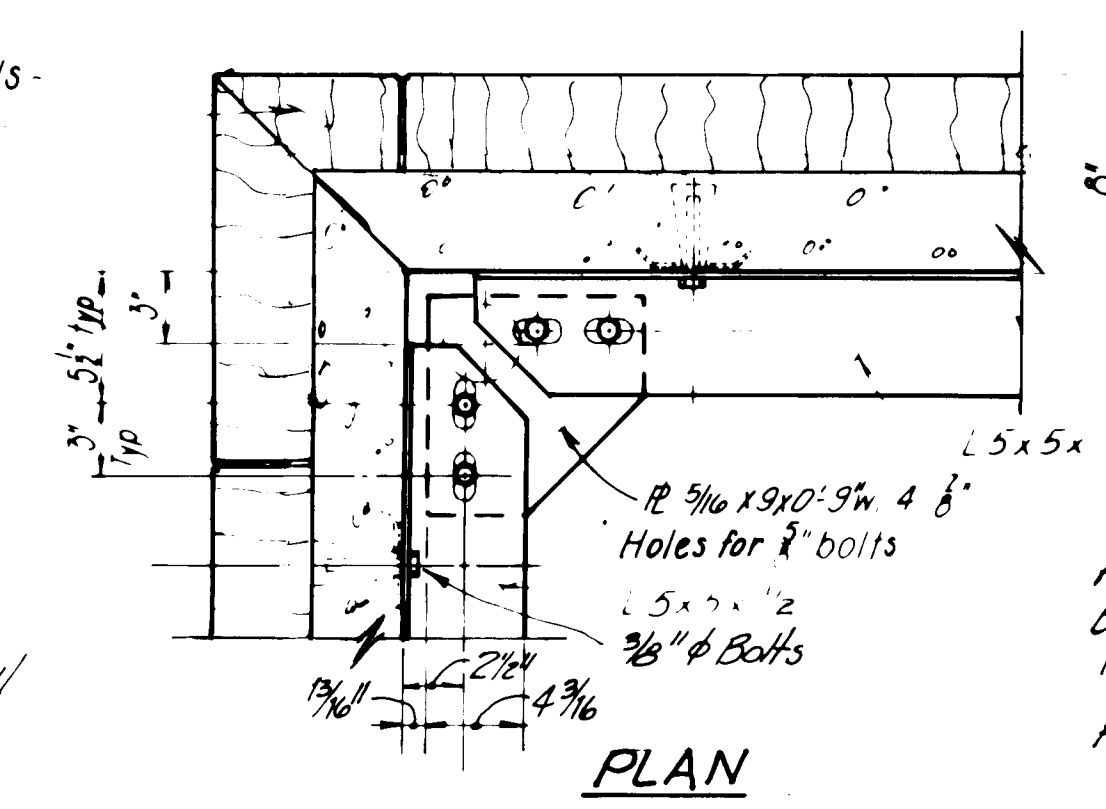


SECTION DETAIL C
Scale: 1/2" = 1'-0"

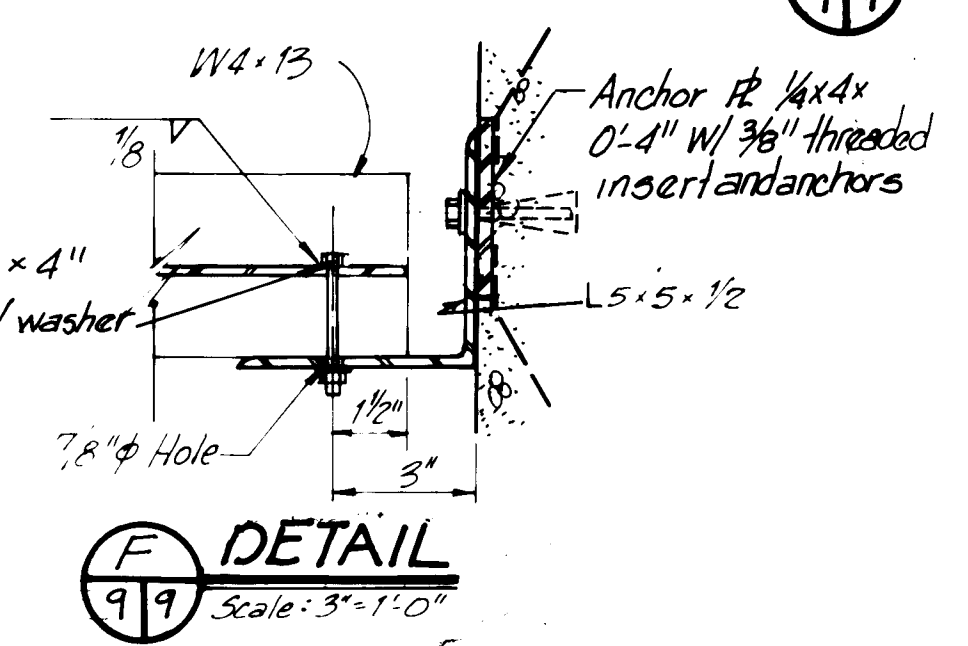
SECTION DETAIL C
Scale: 1/2" = 1'-0"

RECORD DRAWING
APR 4 1986

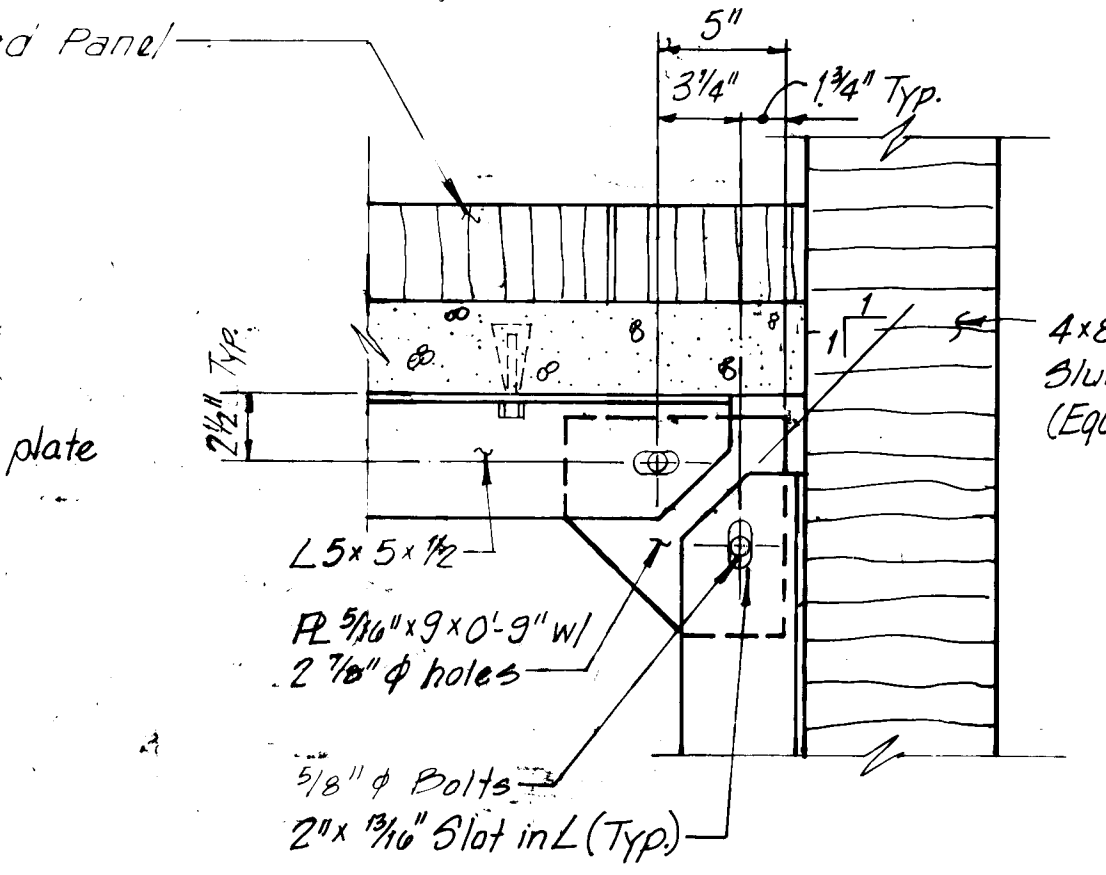
Note
Prefabricated Concrete Panel Manufacturer shall recommend by shop drawing detail for lifting panel both initially and for the future take down and erection.



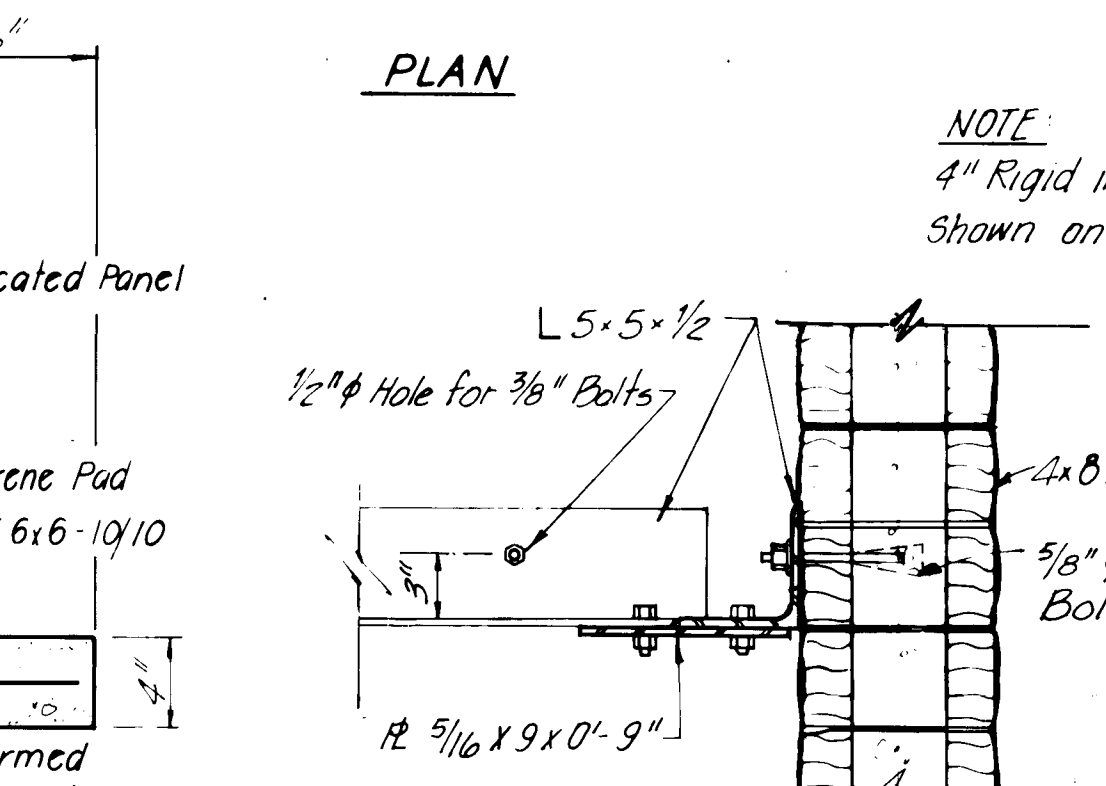
PLAN



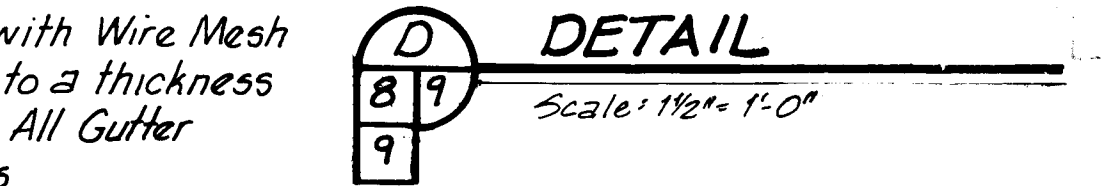
DETAIL B
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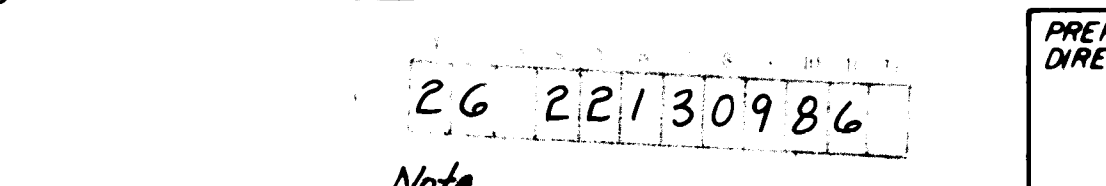
PLAN



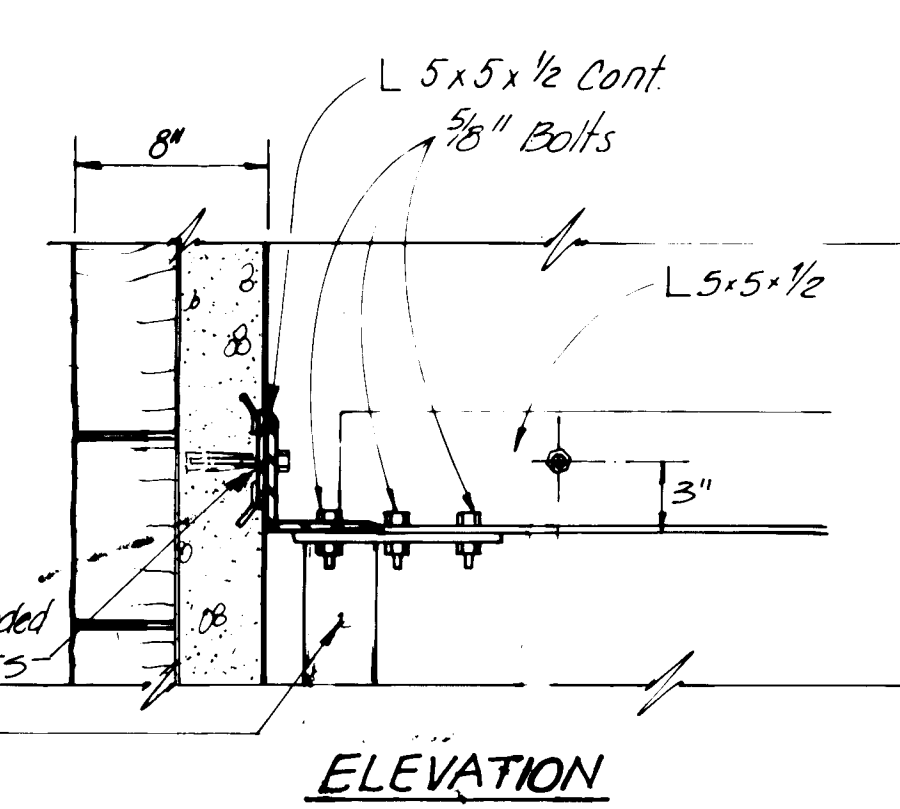
ELEVATION



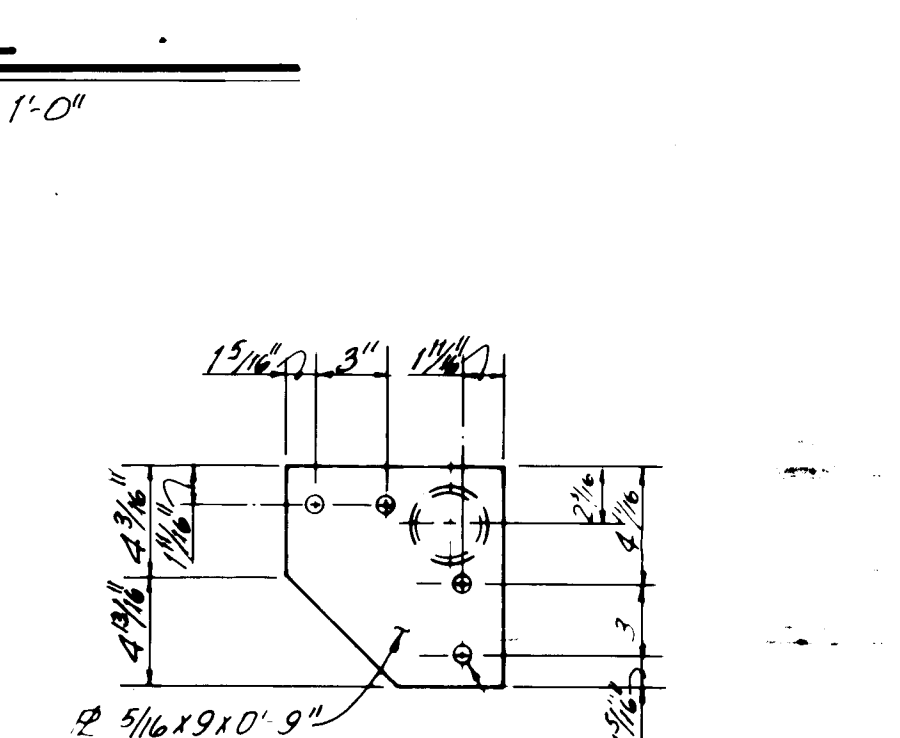
DETAIL D
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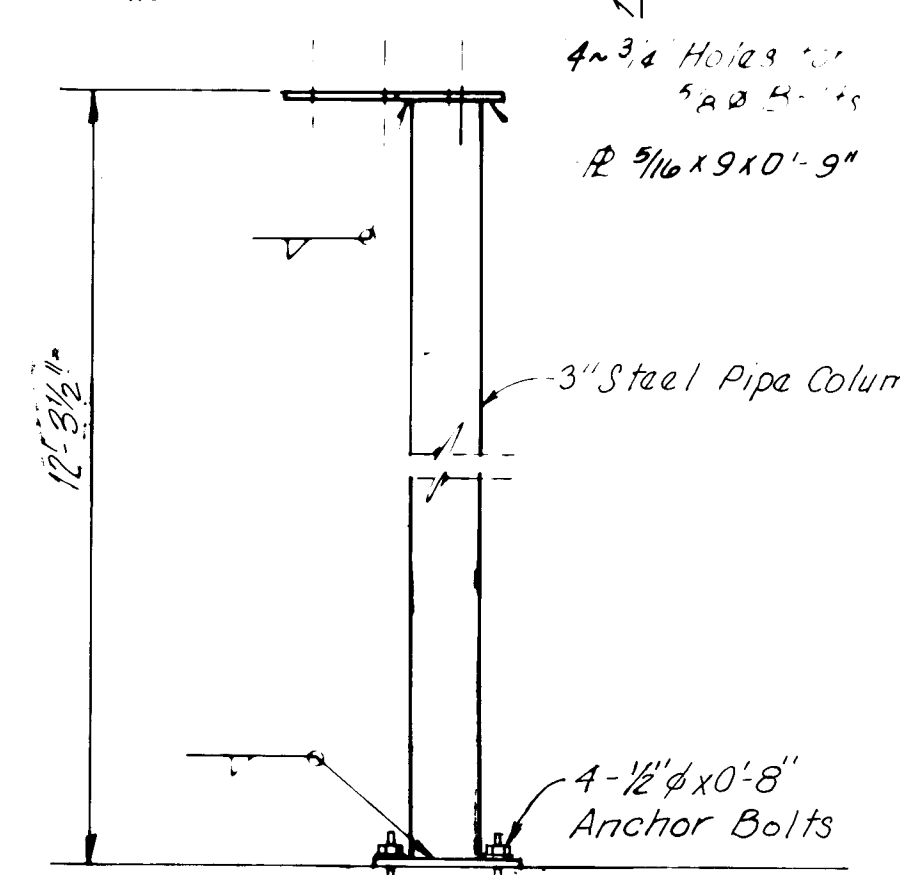
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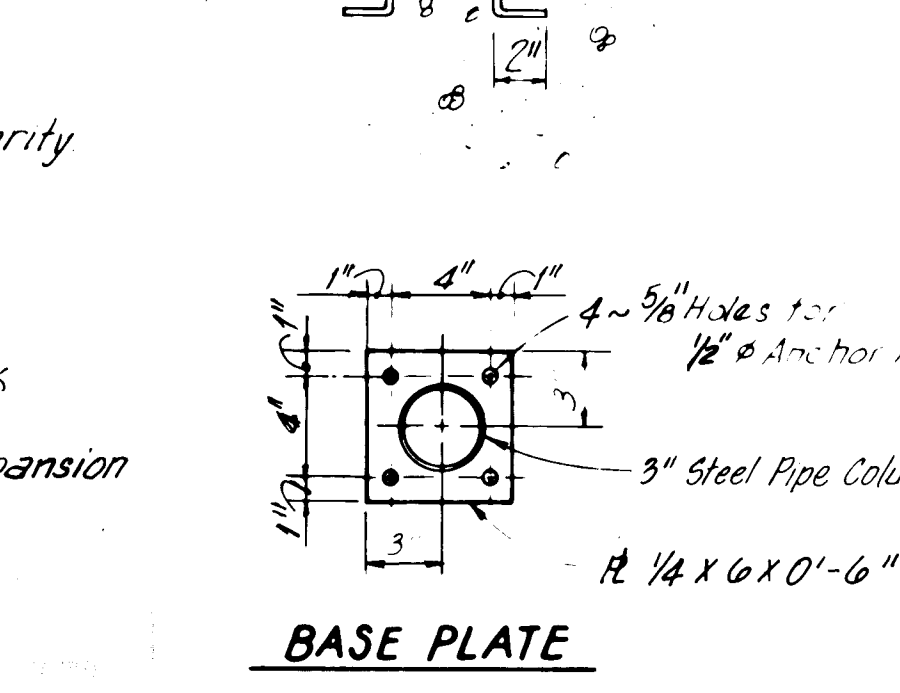
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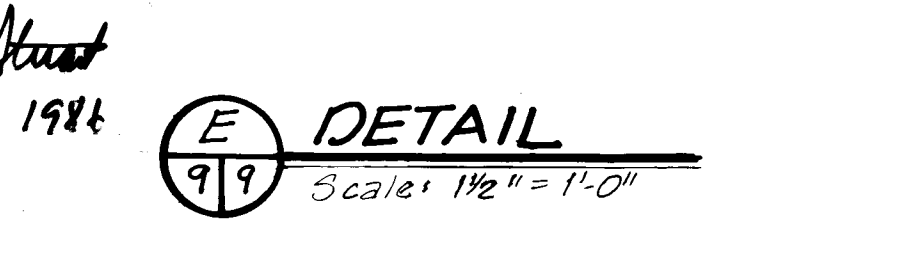
DETAIL E
Scale: 1/2" = 1'-0"



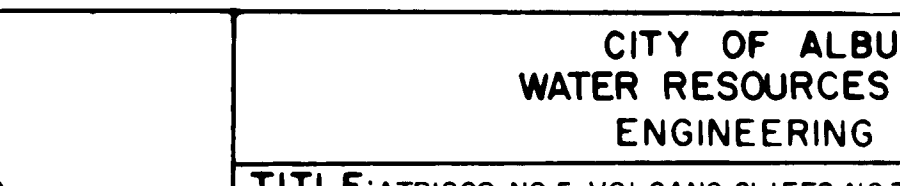
ELEVATION



BASE PLATE



DETAIL F
Scale: 1/2" = 1'-0"



ELEVATION

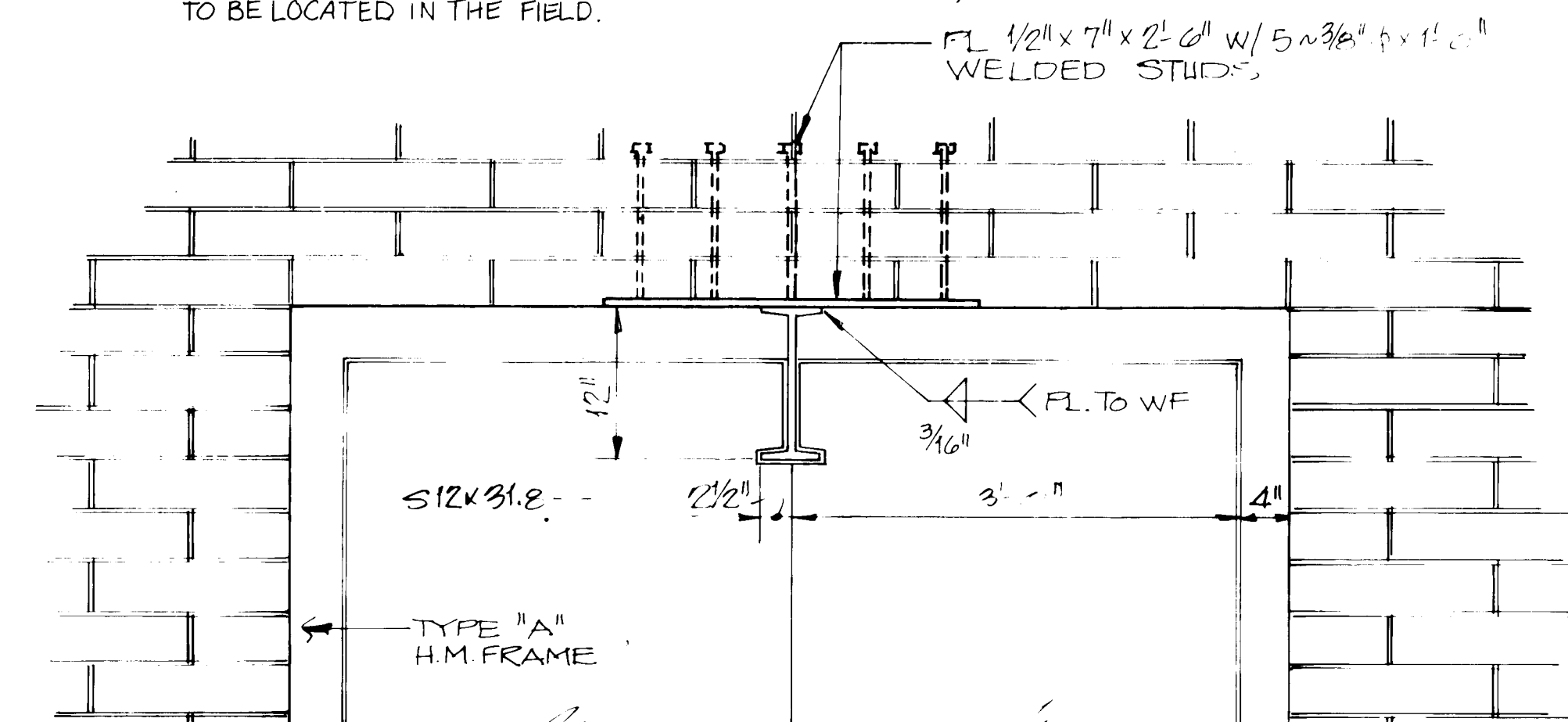
PREPARED UNDER THE DIRECTION OF
G. E. BEAUREGARD
CITY ENGINEER
APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT ENGINEERING DIVISION				
TITLE: ATRISCO NO. 5, VOLCANO CLIFFS NO. 3 AND WALKER NO. 1 WELL EQUIPMENT ENCLOSURE DETAILS (ATRISCO NO. 5)				
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER
City Engineer			Liquid Waste	
ACE-Design			Traffic	
ACE-Hydrology			Water	
DRAWING NO.		SHEET 9 OF 47		
PROJECT NO. 2213				

DOOR & FRAME SCHEDULE

DOORS					FRAMES			SWING
DOOR NO.	WIDTH	HEIGHT	THK	TYPE	MATERIAL	TYPE	MATERIAL	
1	3'-0"	7'-0"	1 3/4"	II	H.M.	B	H.M.	180°
2	3'-0"	7'-0"	1 3/4"	II	H.M.	B	H.M.	180°
3	3'-0"	7'-0"	1 3/4"	II	H.M.	B	H.M.	180°
4	3'-0"	7'-0"	1 3/4"	II	H.M.	B	H.M.	180°
5	3'-0"	7'-0"	1 3/4"	II	H.M.	B	H.M.	180°
6	2'-3'-0"	10'-1'-0"	1 3/4"	I	H.M.	A	H.M.	180°

NOTE: ALL DOORS TO HAVE A DOOR HOLDER OR THROW BOLT, SEE DETAIL BELOW TO BE LOCATED IN THE FIELD.

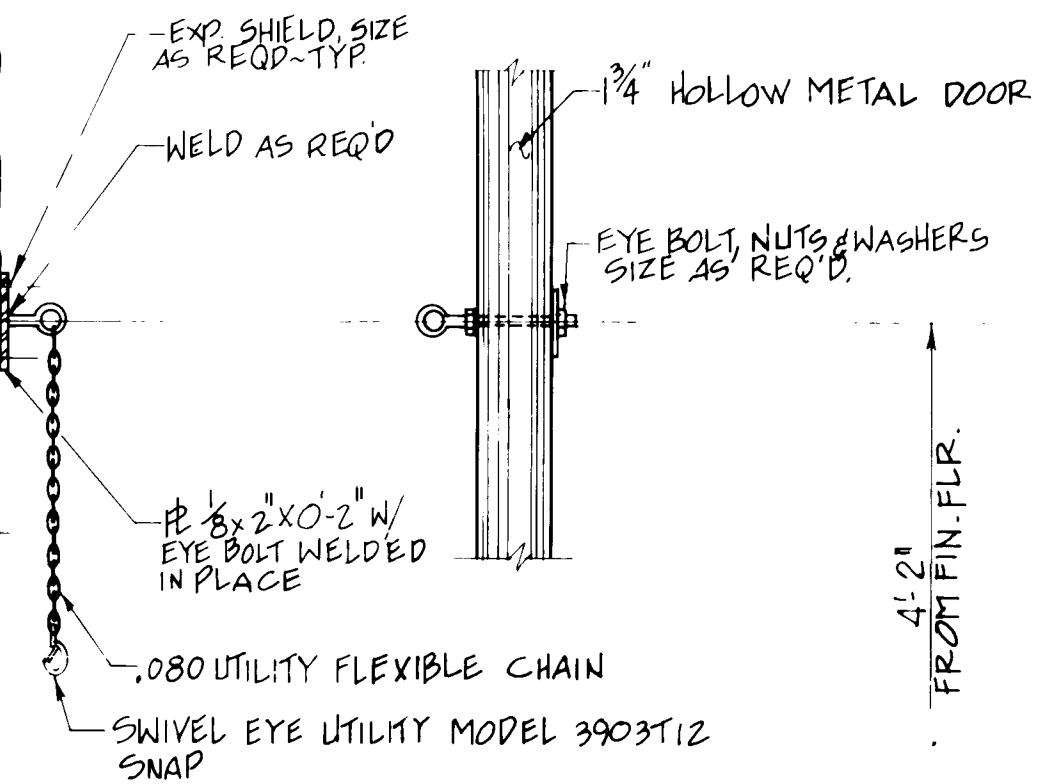


DOOR HEAD ELEVATION (TYPE I)

SCALE: 1" = 1'-0"

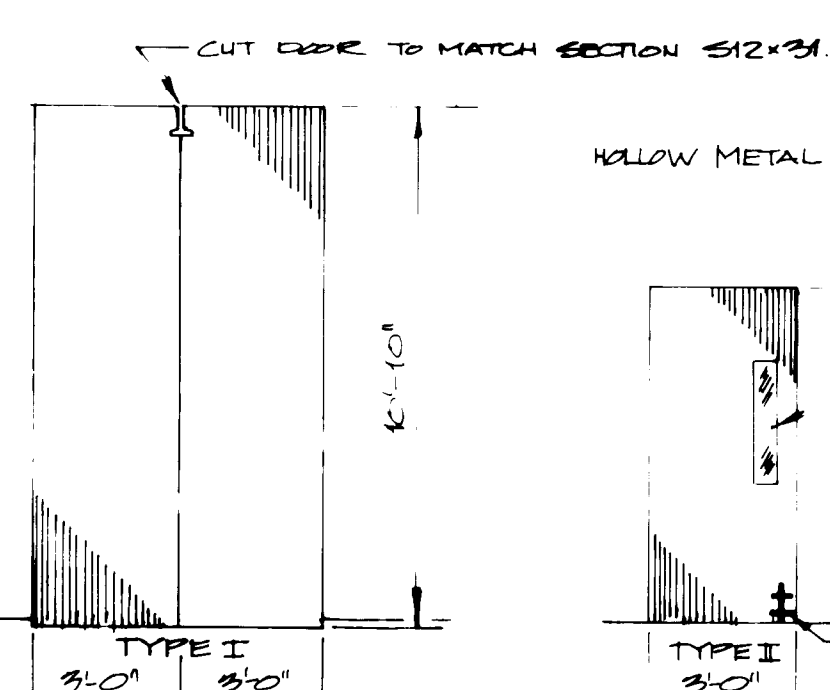
THROW BOLT DOOR HOLDER

NOT TO SCALE - 1, 2, 3, 4, 5 DOORS ONLY



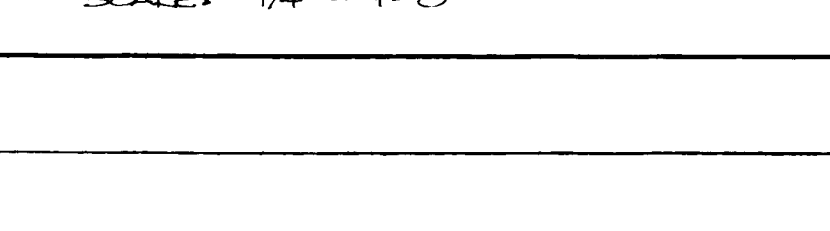
DOOR FRAME TYPES

SCALE: 3/8" = 1'-0"



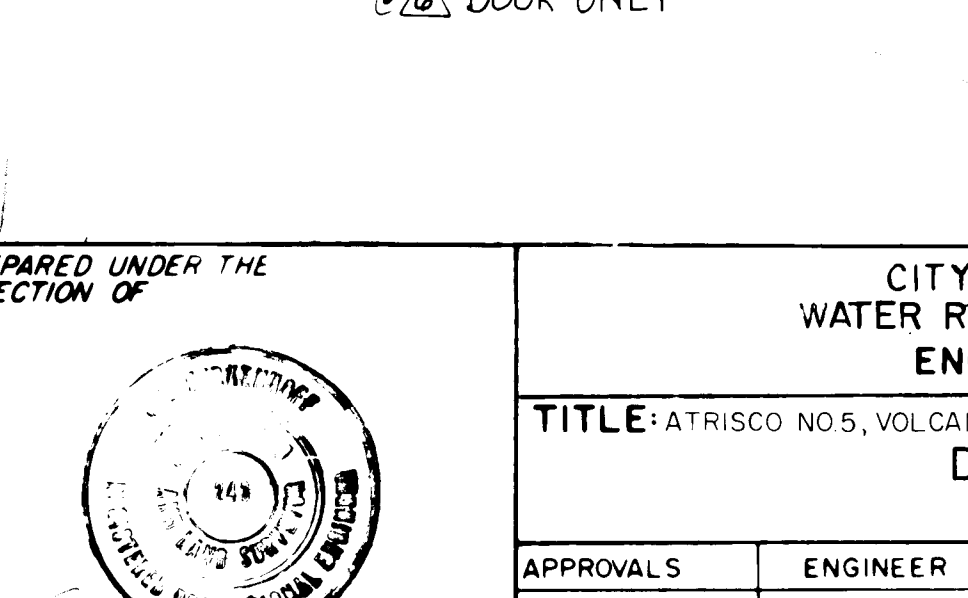
DOOR TYPES

SCALE: 1/4" = 1'-0"



DOOR HOLDER DETAIL

NOT TO SCALE - 6 DOOR ONLY



PREPARED UNDER THE DIRECTION OF



APPROVED FOR CONSTRUCTION

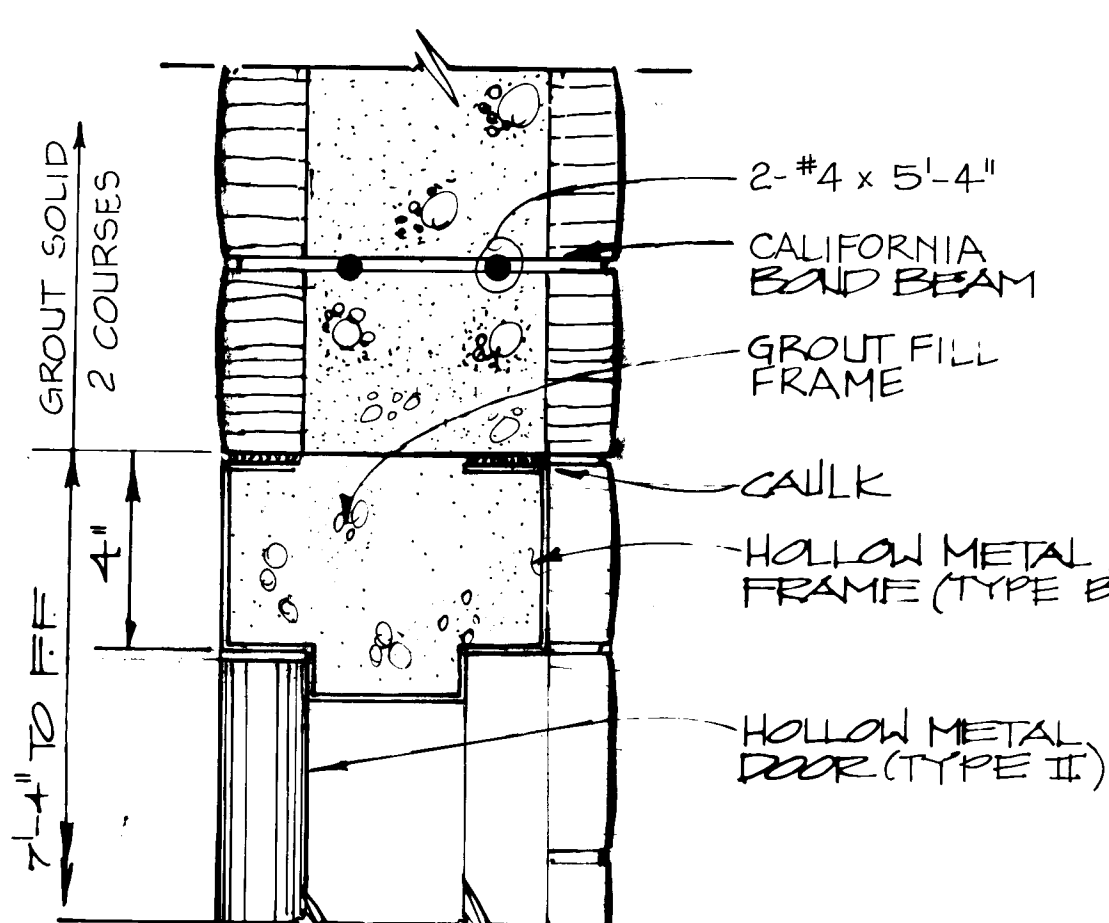
CITY ENGINEER DATE

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

TITLE: ATRISCO NO. 5, VOLCANO CLIFFS NO. 3, AND WALKER NO. 1 WELL EQUIPMENT
DOOR DETAILS
(ATRISCO NO. 5)

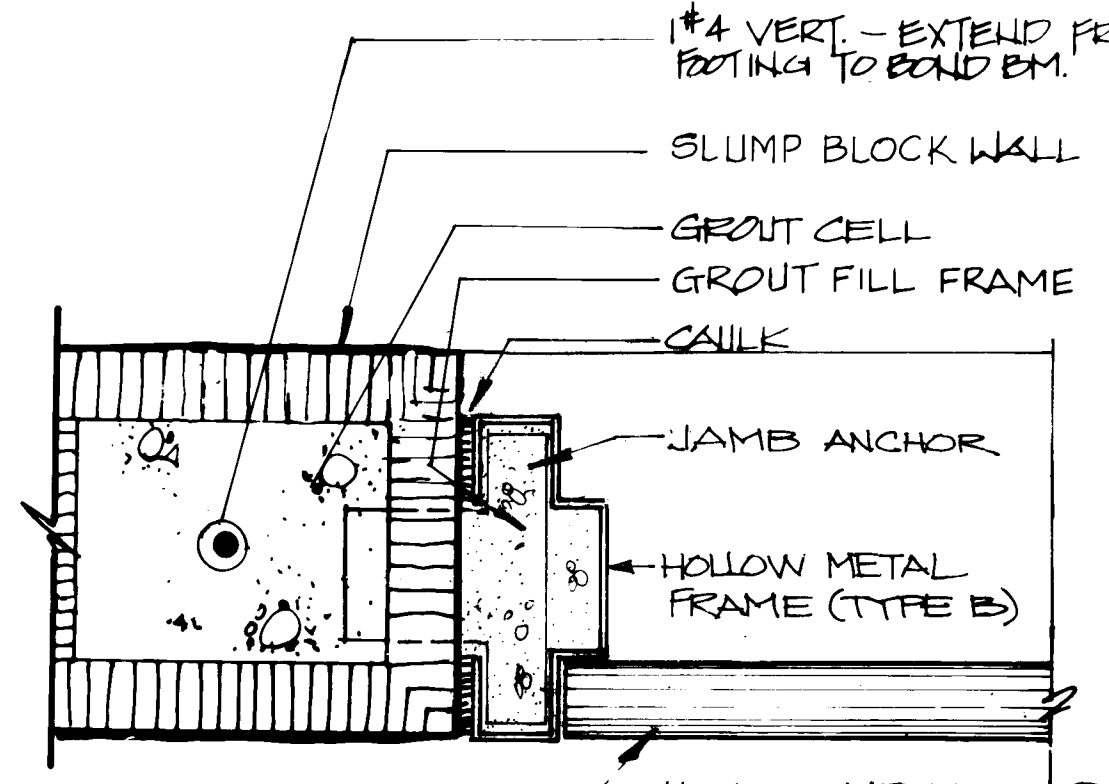
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

DRAWING NO. PROJECT NO. 2213 SHEET 10 OF 47



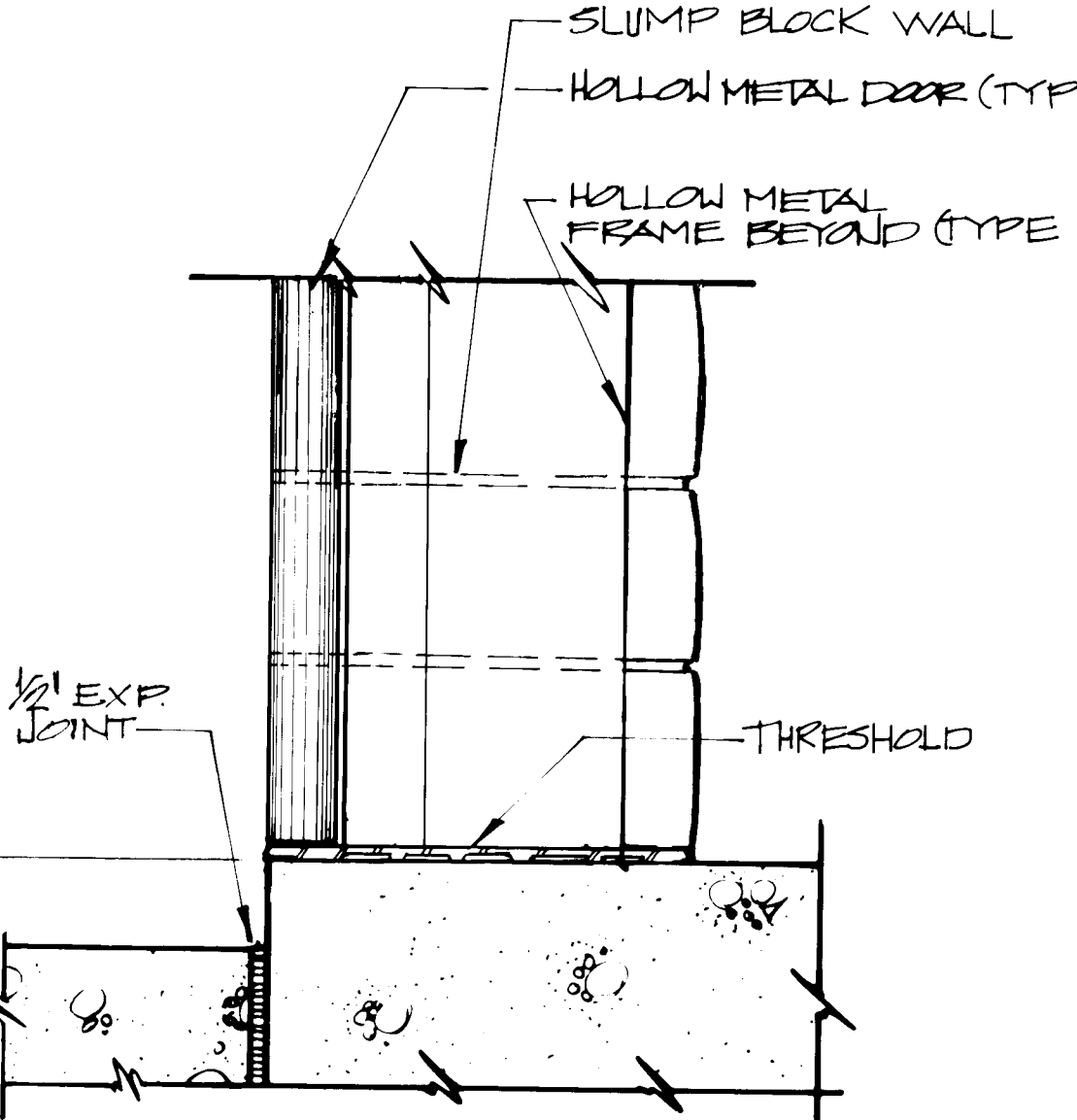
DOOR HEAD DETAIL (TYPE II)

SCALE: 3" = 1'-0"



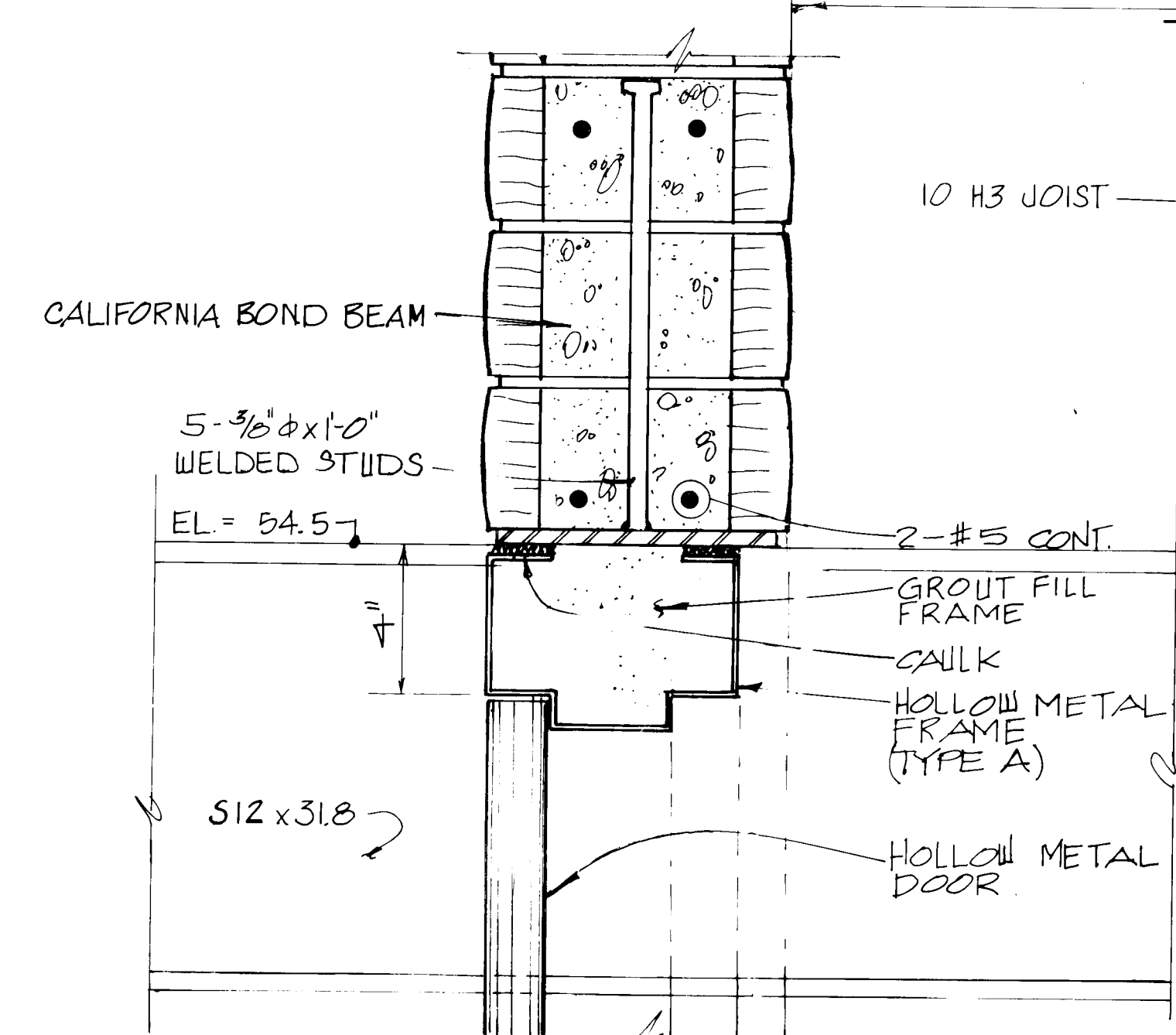
DOOR JAMB DETAIL (TYPE II)

SCALE: 3" = 1'-0"



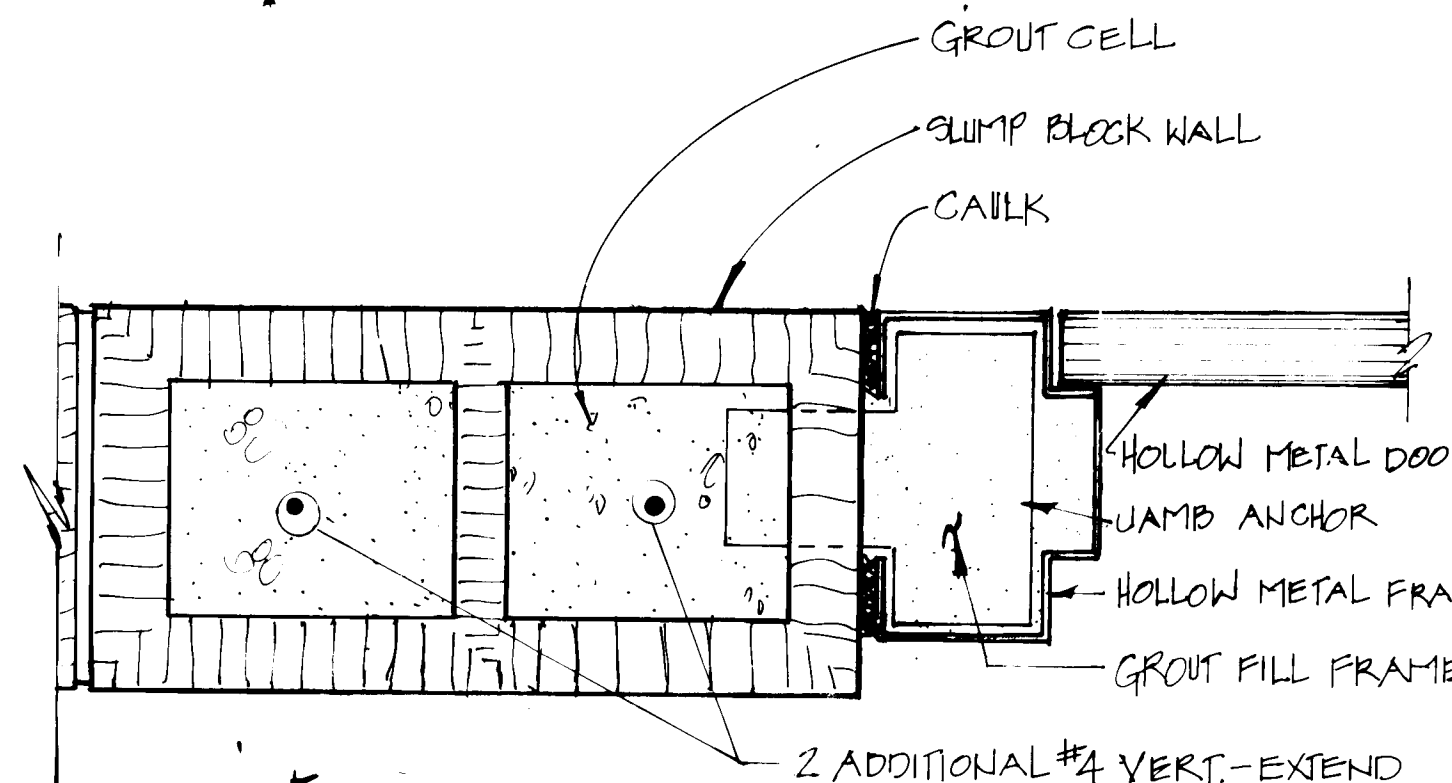
DOOR THRESHOLD DETAIL (TYPE II)

SCALE: 3" = 1'-0"



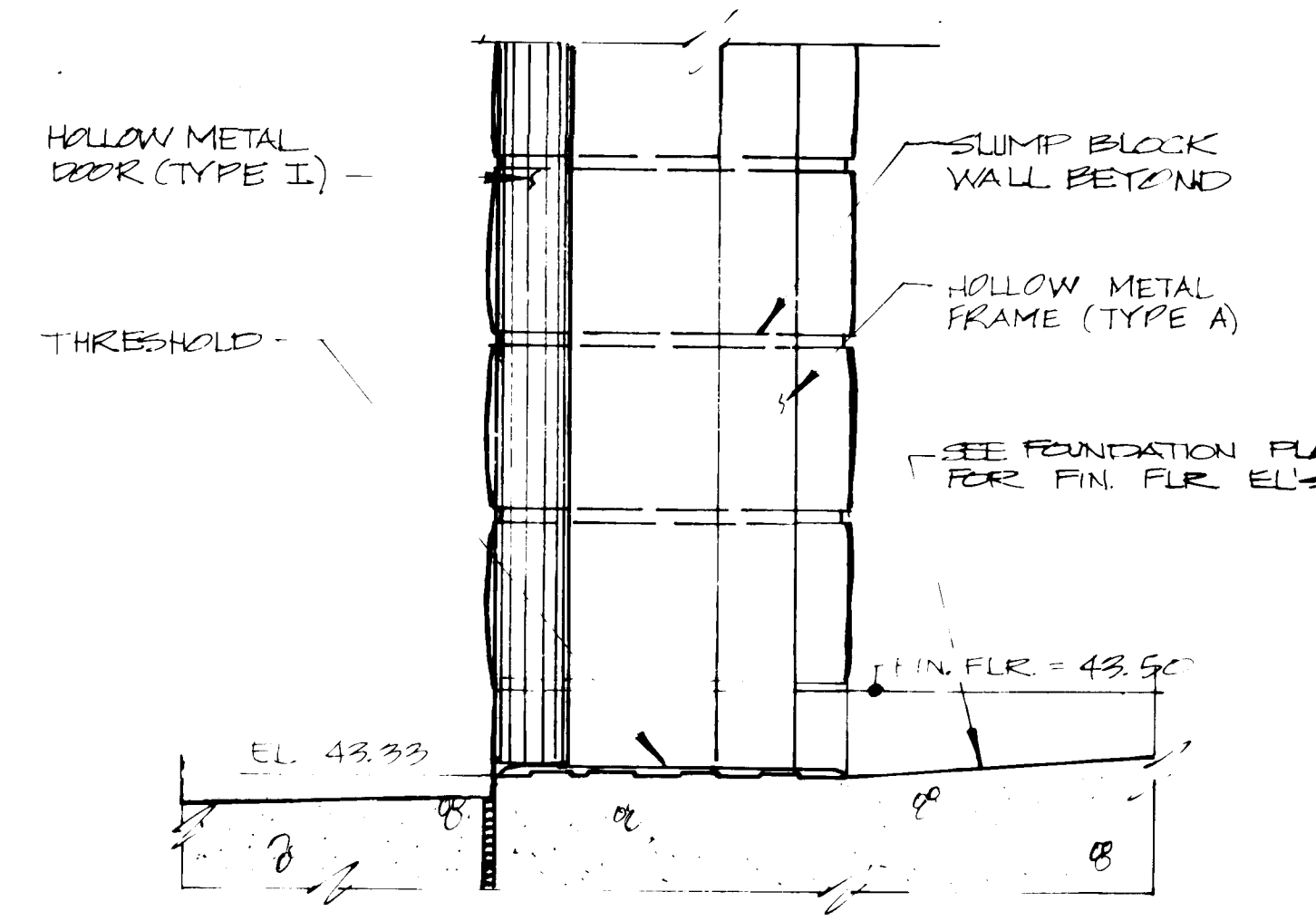
DOOR HEAD DETAIL (TYPE I)

SCALE: 3" = 1'-0"



DOOR JAMB DETAIL (TYPE I)

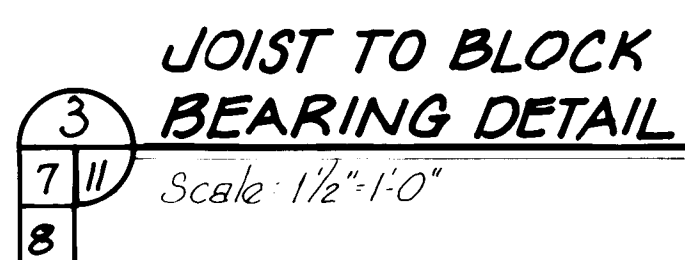
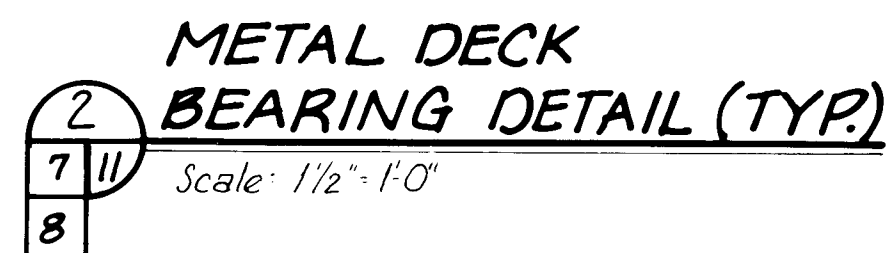
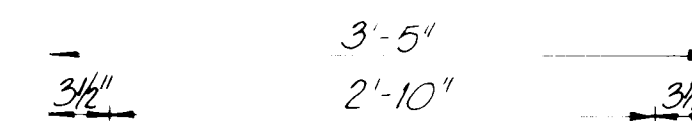
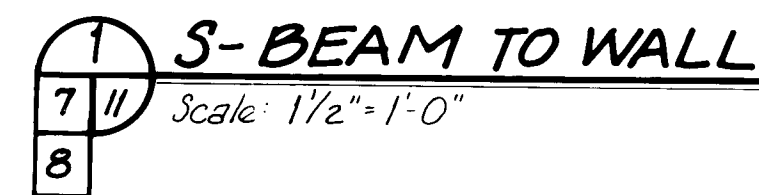
SCALE: 3" = 1'-0"



DOOR THRESHOLD DETAIL (TYPE I)

SCALE: 3" = 1'-0"

BRUNING 44122 4547



7. The drawings have been prepared in accordance with the provisions of the contract and the drawings have been made to depict construction actually performed.

26 22131186



CITY ENGINEER

(ATRISCO NO. 5)

DRAWING NO.	SHEET	OF
PROJECT NO. 2213	11	47

DATE	DESCRIPTION	AMOUNT	BALANCE
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1000

[illegible]

MAP NO. _____

EST. NO. _____

W.O. NO. _____

NO.	DATE	REMARKS	BY
REVISIONS			
		DESIGN	
DESIGNED BY		DATE	
DRAWN BY		DATE	
K.C.W.		SEP. 1963	
CHECKED BY		DATE	

Arthur J. Stuart
July 16, 1986

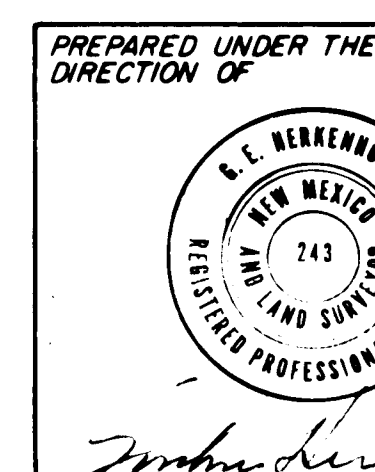


Not to Scale

Date 1960

These drawings are not based on field data. The attempt has been to design a segment construction as actually performed.

26 22131286

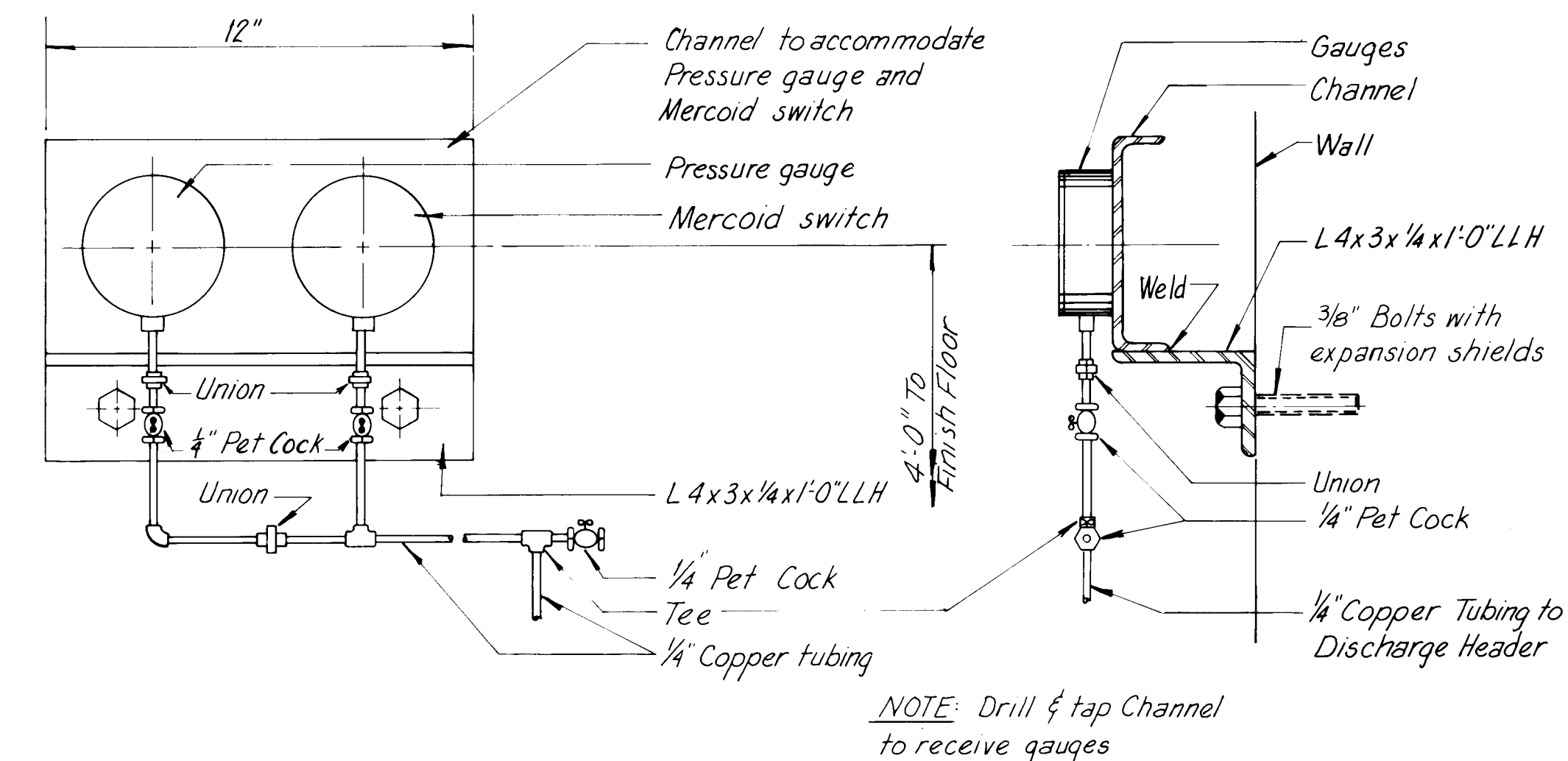
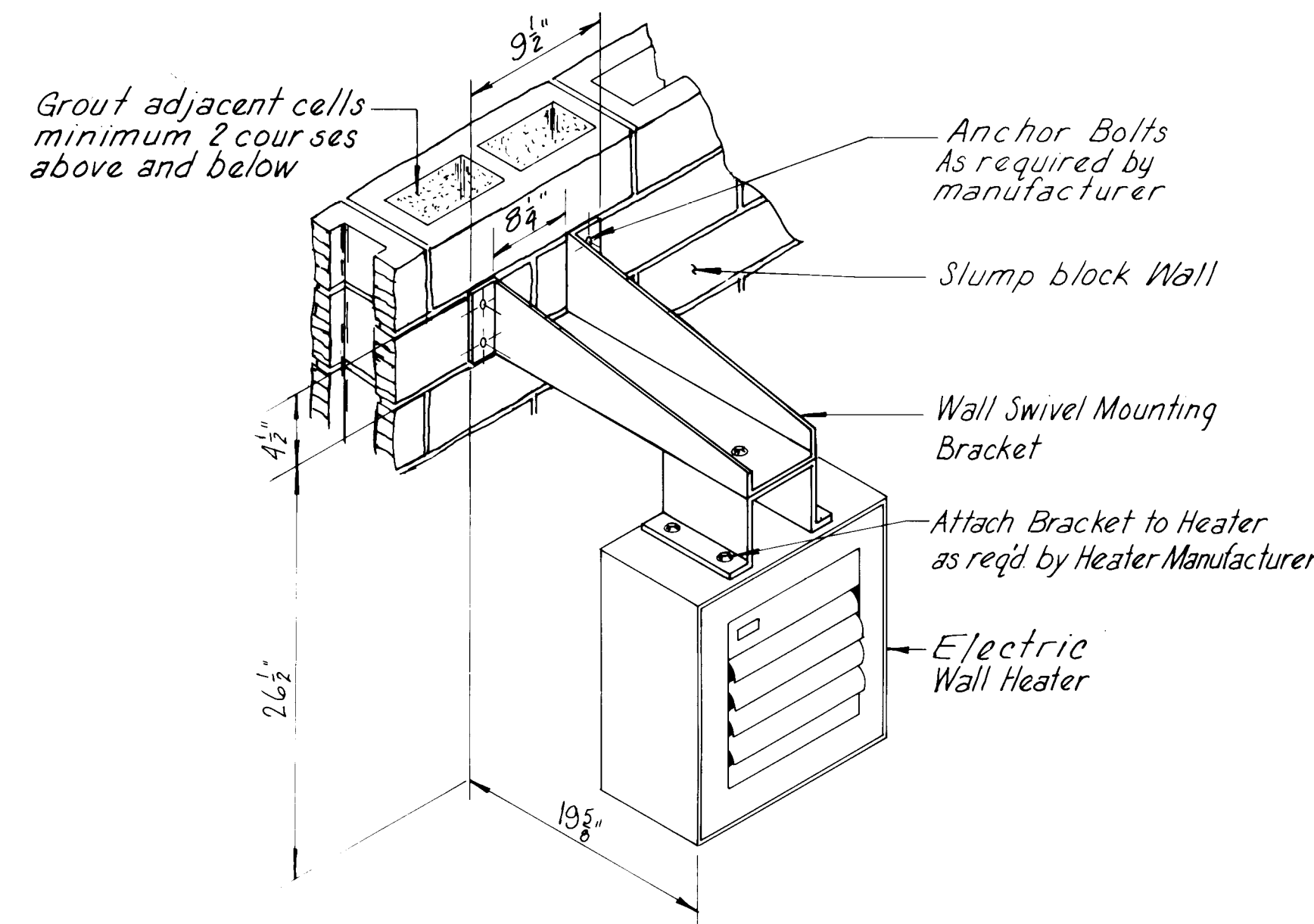
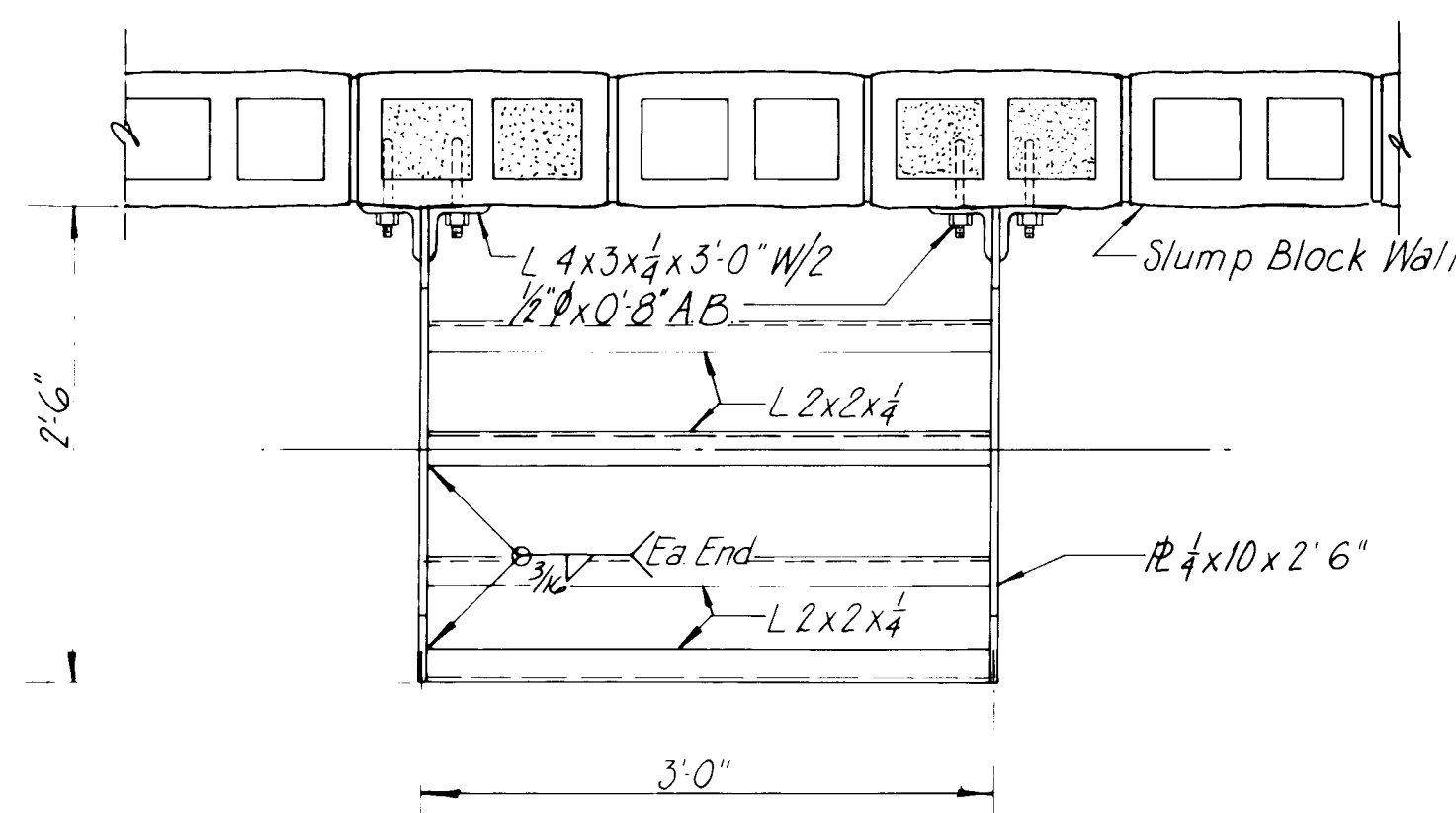


CITY ENGINEER

TITLE:ATRISCO NO.5, VOLCANO CLIFFS NO.3 AND WALKER NO.1 WELL EQUIPMENT
EMERGENCY SHOWER, CHLORINATION PIPING
AND WELL PIPING SCHEMATICS
(ATRISCO NO.5)

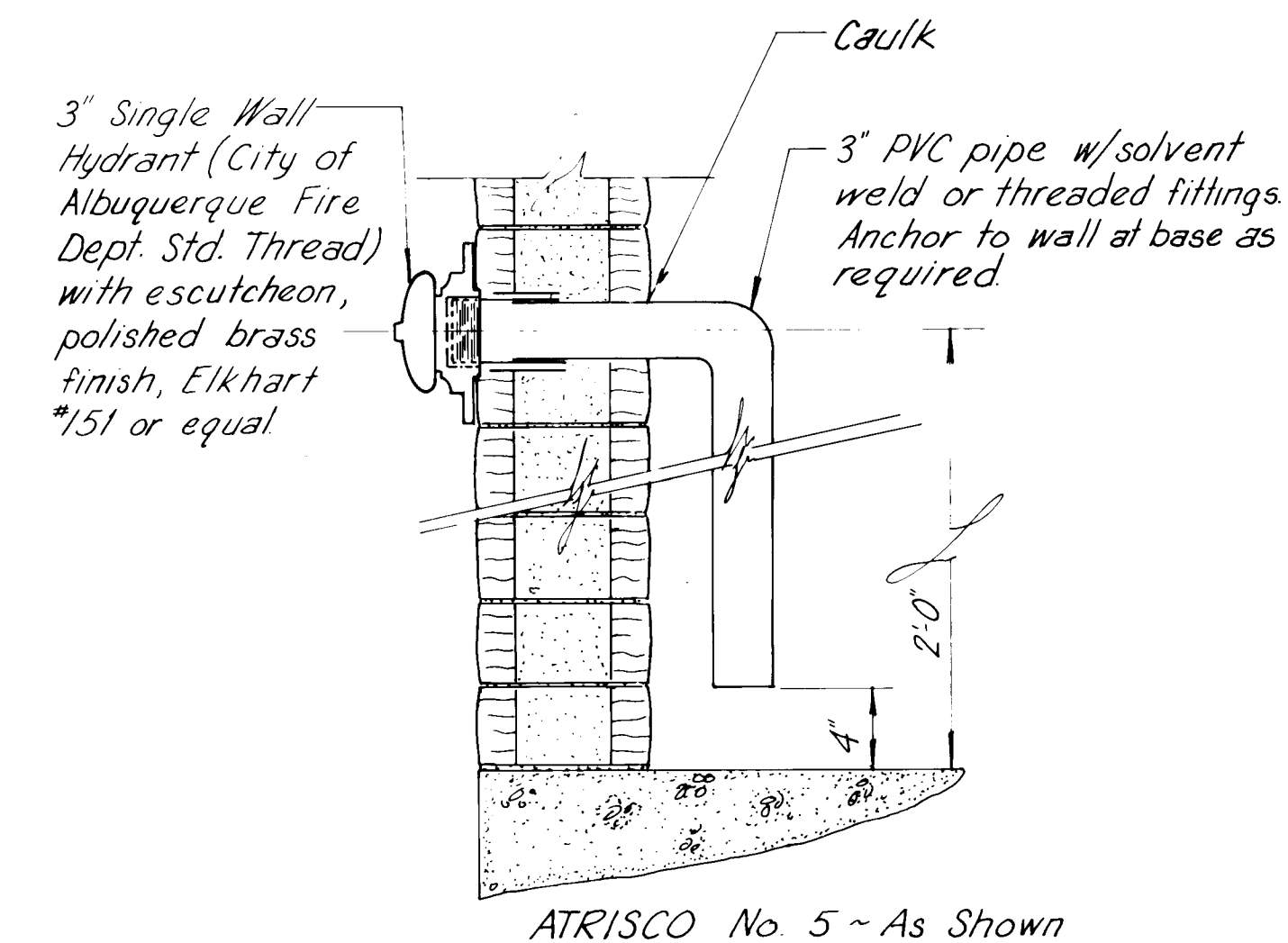
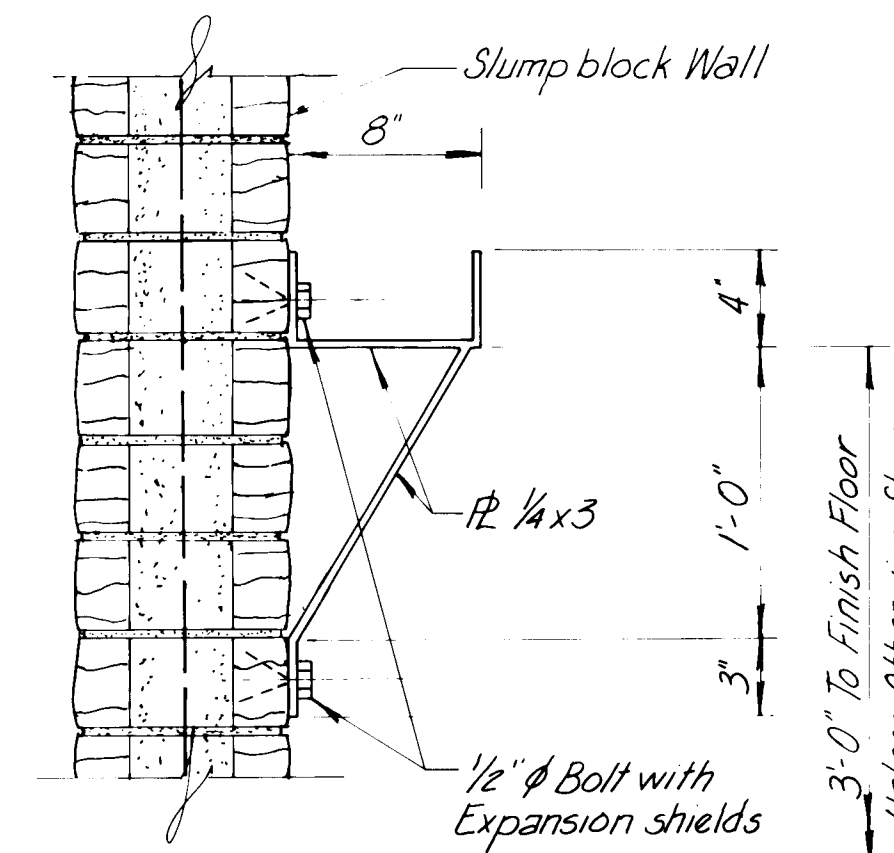
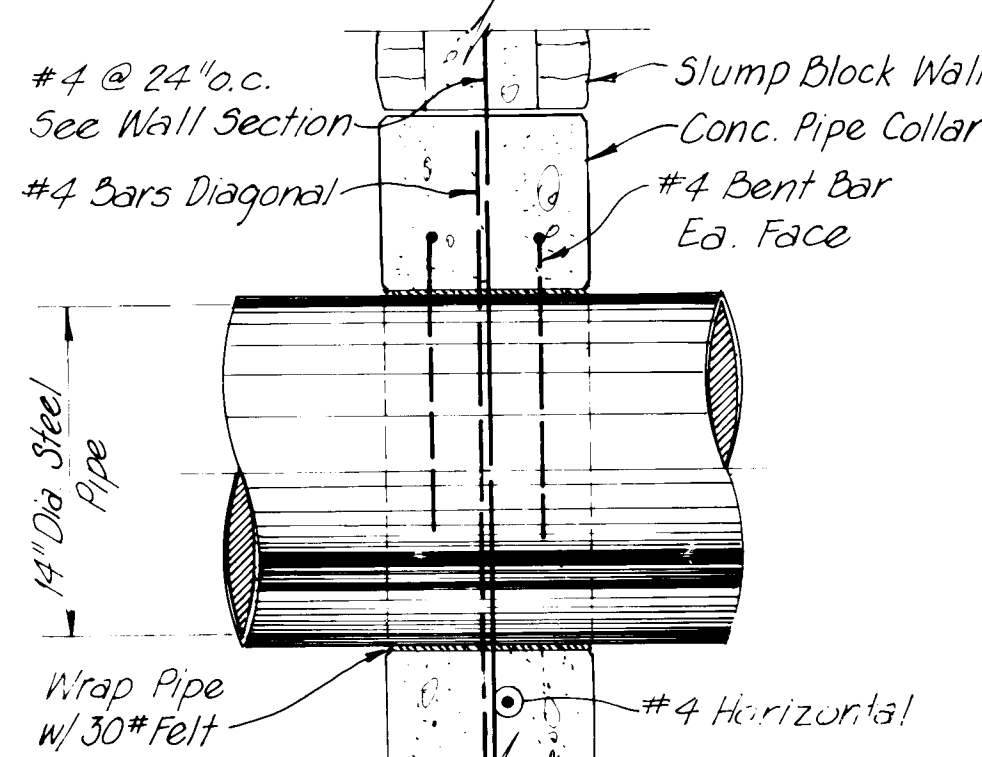
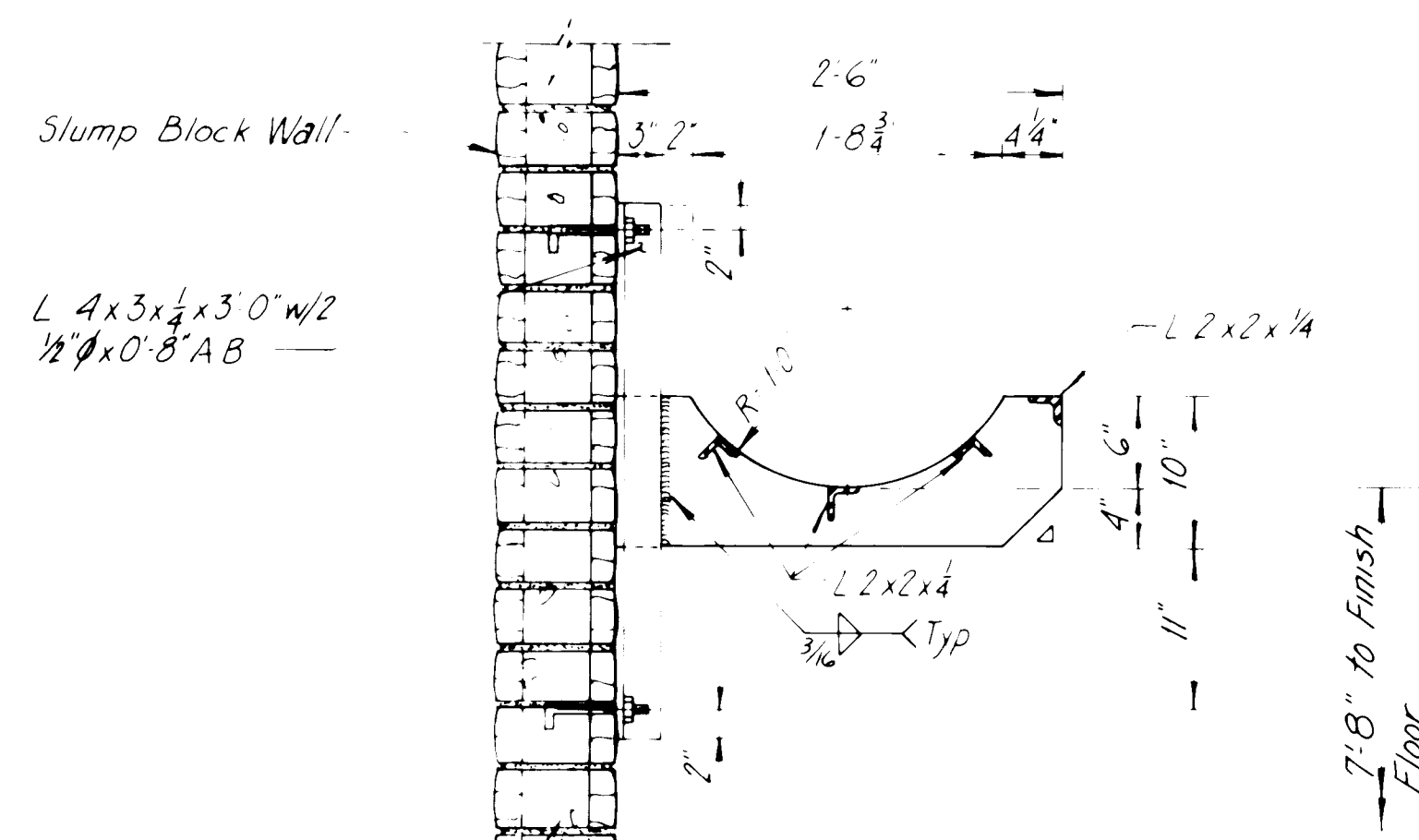
DRAWING NO.	SHEET 12 OF 47
PROJECT NO. 2213	

[illegible]



3 WALL HEATER MOUNTING BRACKET DETAIL
15/13 Not to Scale

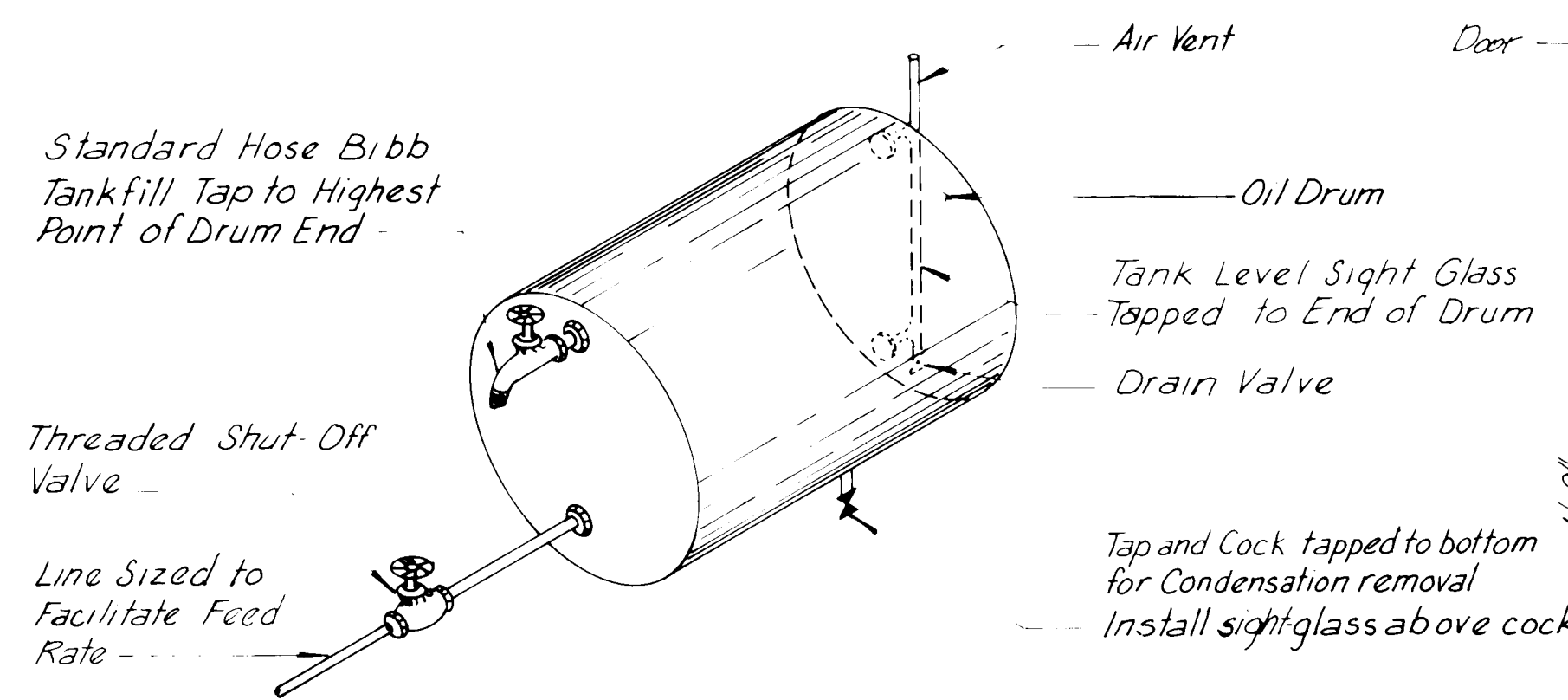
5 GAUGE DETAIL
6/12 Not to Scale



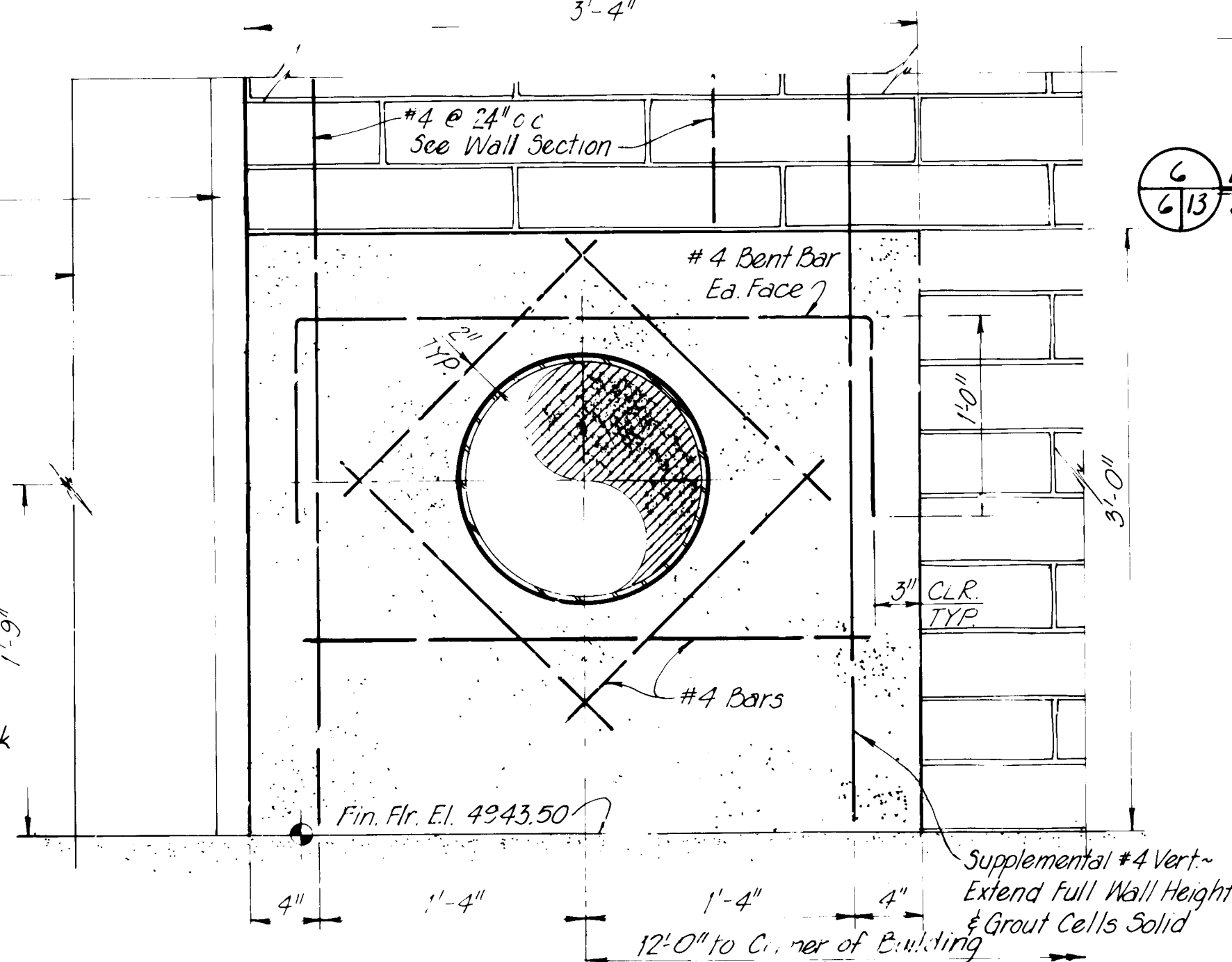
6 HOSE RACK DETAIL
6/13 Scale: 1/2" = 1'-0"

7 CHLORINE SUCTION OUTLET
4/13 Not to Scale

1 OIL DRUM SUPPORT DETAIL
Scale: 1" = 1'-0"



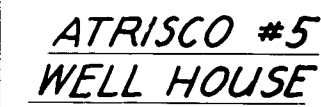
2 OIL DRUM DETAIL
6/13 Not to Scale



4 OUTSIDE ELEVATION PIPE WALL PENETRATION DETAILS
12/13 Scale: 1 1/2" = 1'-0"

RECORD DRAWING
A/R 4 1986
Date: 4/13/86
These drawings were prepared and based on field data and site visits. No attempt has been made to depict construction as actually performed.

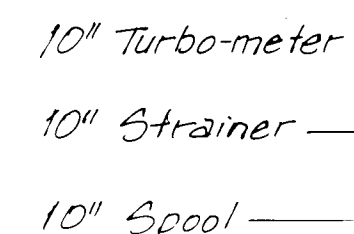
PREPARED UNDER THE DIRECTION OF		CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT ENGINEERING DIVISION	
APPROVALS		TITLE: ATRISCO NO. 5, VOLCANO CLIFFS NO. 3 AND WALKER NO. 1 WELL EQUIPMENT MISCELLANEOUS AND EQUIPMENT SUPPORT DETAILS (ATRISCO NO. 5)	
CITY ENGINEER	ENGINEER	DATE	DATE
A C E - Design			Liquid Waste
A C E - Hydrology			Traffic
			Water
DRAWING NO.		SHEET 13 OF 47	
PROJECT NO. 2213			



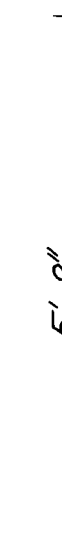
SCALE NONE



(OPP. Baseline *1 STA. 0+86.10~ 500' RT)
SCALE: $\frac{3}{8}" = 1'-0"$



(OPP. Baseline #1 STA. 0+78.10~11.30 RT.)
Not to Scale



Existing Casing Elev. 4944.208



SECTION

SCALF: NONE



Date 11/11/1956

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.



TITLE: ATRISCO NO.5, VOLCANO CLIFFS NO. 3 AND WALKER NO.1 WELL EQUIPMENT
MISCELLANEOUS DETAILS

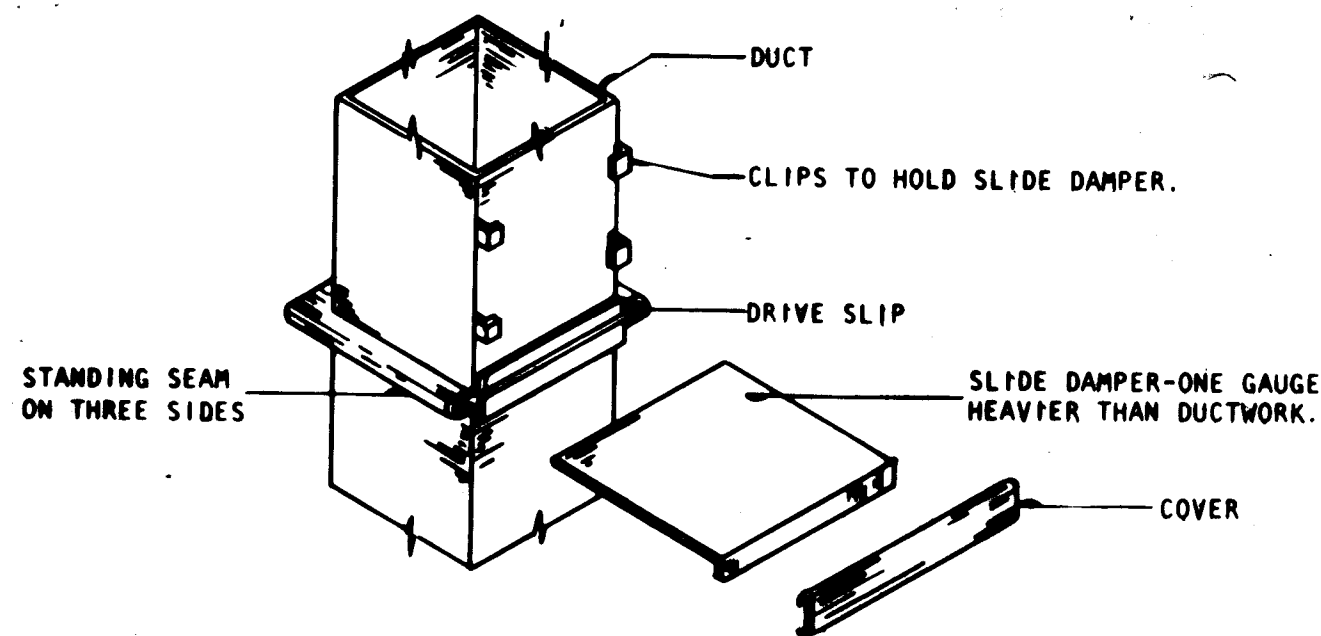
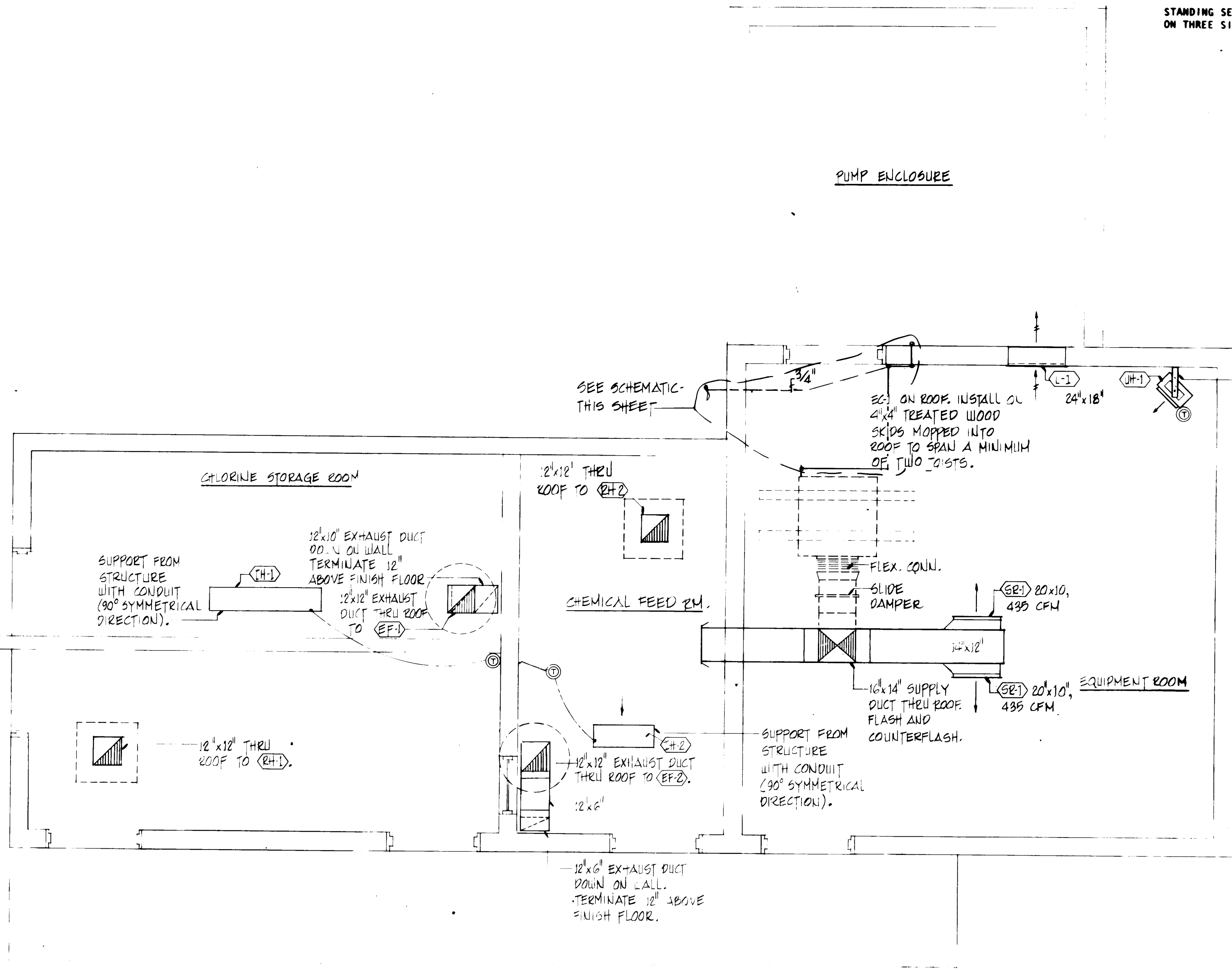
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E -Design			Traffic		
A C E -Hydrology			Water		

DRAWING NO.	SHEET	OF
PROJECT NO. 2213	14	47

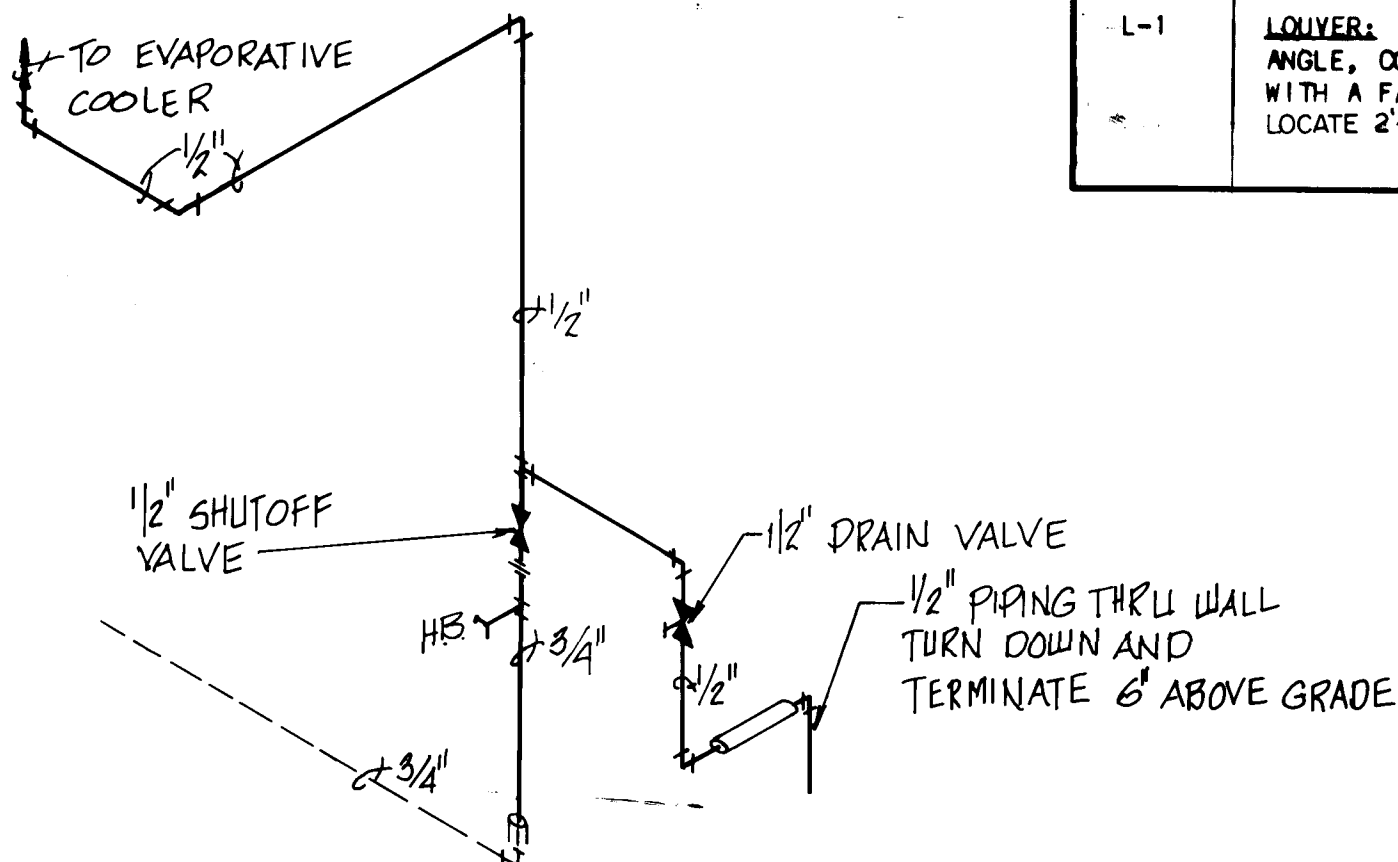
				REFERENCES		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
				MAP NO.			FIELD NOTES				
				EST. NO.	W.O. NO.		NO.	BY	DATE		
NO. DATE	REMARKS	BY									
REVISIONS											
DESIGN											
DESIGNED BY	DATE										
DRAWN BY	DATE										
CHECKED BY	DATE										
										RECORDED BY	
										DATE	
										NO	
										CONTRACTOR BILL STOCKMAN CONST CO	
										WORK LEEDSHILL-HERKENHOFF INC	
										STAMPED BY DATE 3/96	
										INSPECTORS C. BARTOW-LH DATE 3/96	
										FIELD C. BARTOW-LH DATE 3/96	
										VERIFICATION BY DATE 3/96	
										CORRECTED BY J. BUTTS-LH DATE 3/96	
MICRO-FILM INFORMATION											



MECHANICAL PLAN
SCALE: 3/8" = 1' - 0"



SLIDE DAMPER DETAIL
SCALE: NONE



SCHEMATIC: SUPPLY WATER TO EVAPORATIVE COOLER

RECORD DRAWING

Date: 4/4/1986

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION
EC-1	EVAPORATIVE COOLER: DRIP TYPE EVAPORATIVE COOLER COMPLETE WITH CABINET, FILTER PAD FRAMES, BLOWER WHEEL, BLOWER HOUSING, WATER DISTRIBUTION TROUGH, BLOWER MOTOR, FLOAT VALVE, RECIRCULATING WATER PUMP, AND ALL ACCESSORIES REQUIRED FOR A COMPLETE OPERATING SYSTEM. THE CABINET SHALL BE CONSTRUCTED OF HEAVY GAUGE HOT DIPPED GALVANIZED STEEL WITH ALL SUPPORTS OF WELDED CONSTRUCTION. THE ENTIRE WATER RESERVOIR SHALL BE COATED WITH A PROTECTIVE ASPHALT COATING. COOLER EXTERIOR SHALL BE FINISHED WITH A FACTORY APPLIED ENAMEL FINISH. BLOWER MOTOR SHALL BE SPECIFICALLY DESIGNED FOR USE IN EVAPORATIVE COOLER APPLICATION WITH BEARINGS PERMANENTLY LUBRICATED AND SHALL BE FURNISHED WITH AN ADJUSTABLE SHEAVE. RECIRCULATING WATER PUMP SHALL HAVE PERMANENTLY LUBRICATED BRONZE BEARINGS, WATERPROOF INSULATION AND WATER SHIELD CAP. FURNISH COMPLETE WITH SHEETMETAL WINTERIZING PANELS WITH NEOPRENE GASKET AND CLIPS FOR INSTALLATION. PAINT CABINET PER SPECS. COLOR BY ARCHITECT. MODEL NUMBERS ARE McGRAW EDISON.
EF-1	EXHAUST FAN: CENTRIFUGAL TYPE ROOF EXHAUSTER WITH SPIN ALUMINUM HOUSING, ALUMINUM CURB CAP, STAINLESS STEEL FASTENINGS, PRE-LUBRICATED BALL BEARING DRIVE, VIBRATION ISOLATORS, NON-OVERLOADING ALL ALUMINUM WHEEL AND HUB DYNAMICALLY AND STATICALLY BALANCED, BACKDRAFT DAMPERS, DISCONNECT SWITCH, ALUMINUM WIRING POST, PREFABRICATED SOUND CURB AND WIRING TO JUNCTION BOX. MODEL NUMBERS SHOWN ARE GREENHECK
EF-2	
RH-1 & RH-2	INTAKE HOOD: RECTANGULAR TYPE, ALL ALUMINUM CONSTRUCTION, LOW SILHOUETTE WITH INTEGRAL CURB CAP COMPLETE WITH BIRD AND INSECT SCREEN, FACTORY FURNISHED PREFAB ROOF CURB, INSULATION ON COVER AND BACKDRAFT DAMPERS. UNITS ARE "GREENHECK"
UH-1	UNIT HEATER: SHALL BE ELECTRIC RESISTANCE WALL MOUNTED, HORIZONTAL UNIT HEATER. THE CABINET SHALL BE 18 GAUGE STEEL WITH A FACTORY BAKED ENAMEL FINISH. INDIVIDUAL ADJUSTABLE LOUVERS FOR DIRECTIONAL AIR FLOW SHALL BE PROVIDED. THE ELECTRICAL HEATING BANK SHALL HAVE METAL SHEATH HEATING ELEMENTS AND AUTOMATIC RESET THERMAL OVERLOAD PROTECTION. MOTOR SHALL BE FULLY ENCLOSED. CONTINUOUS FAN SLEEVE BEARING TYPE WITH THERMAL OVERLOAD PROTECTION, AND VIBRATION ISOLATION. FAN SHALL BE ALUMINUM, DYNAMICALLY BALANCED AND SHALL HAVE GUARD. FURNISH COMPLETE WITH WALL MOUNTING BRACKET AND WALL MOUNTED THERMOSTAT. MODEL NUMBERS ARE CHROMALOX.
IH-1 & IH-2	INFRA-RED HEATER: ELECTRIC HEATERS AS MANUFACTURED BY EMERSON-CHROMALOX. UNIT SHALL BE COMPLETE WITH 90° SYMMETRICAL REFLECTOR, THERMOSTAT AND ALL ACCESSORIES REQUIRED FOR A COMPLETE OPERATING SYSTEM.
SR-1	SUPPLY REGISTER: KRUEGER SERIES S80H DOUBLE DEFLECTION GRILLE WITH INDIVIDUALLY ADJUSTABLE VANES, FRONT AND REAR, SET ON 3/4" CENTERS. UNIT SHALL BE ALL STEEL CONSTRUCTION WITH FACTORY APPLIED FINISH AND OPPOSED BLADE BALANCING DAMPER (OBD) BEHIND. SEE PLANS FOR SIZES.
L-1	LOUVER: ALL EXTRUDED ALUMINUM CONSTRUCTION WITH "J" SHAPED BLADES SET AT A 30 DEGREE ANGLE, COMPLETE WITH A GALVANIZED BIRDSCREEN, BACKDRAFT DAMPERS, AND MOUNTING FRAME WITH A FACTORY APPLIED BAKED ENAMEL FINISH. KRUEGER MODEL XAL-5, SEE PLANS FOR SIZE. LOCATE 2'-0" FROM FINISH FLOOR.

AS BUILT INFORMATION	BENCH MARKS	SURVEY INFORMATION	REFERENCES	REVISIONS	DESIGN
CONTRACTOR BILL STOCKMAN CONST CO WORK: LEE DSHILL-HERKENTHOFF INC. DATE: 3/86 ACCEPTANCE BY: C. BARTON - LH DATE: 3/86 CHECKED BY: J. FEENEY DATE: 3/86 RECORDED BY: J. FEENEY DATE: 3/86 NO.		FIELD NOTES DATE BY NO.	MAP NO. EST. NO. W.O. NO.	NO. DATE	DESIGNED BY: R. GARCIA DATE: 3/26/84 DRAWN BY: R. CHAVEZ DATE: 3/26/84 CHECKED BY: J. FEENEY DATE: 3/26/84



APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

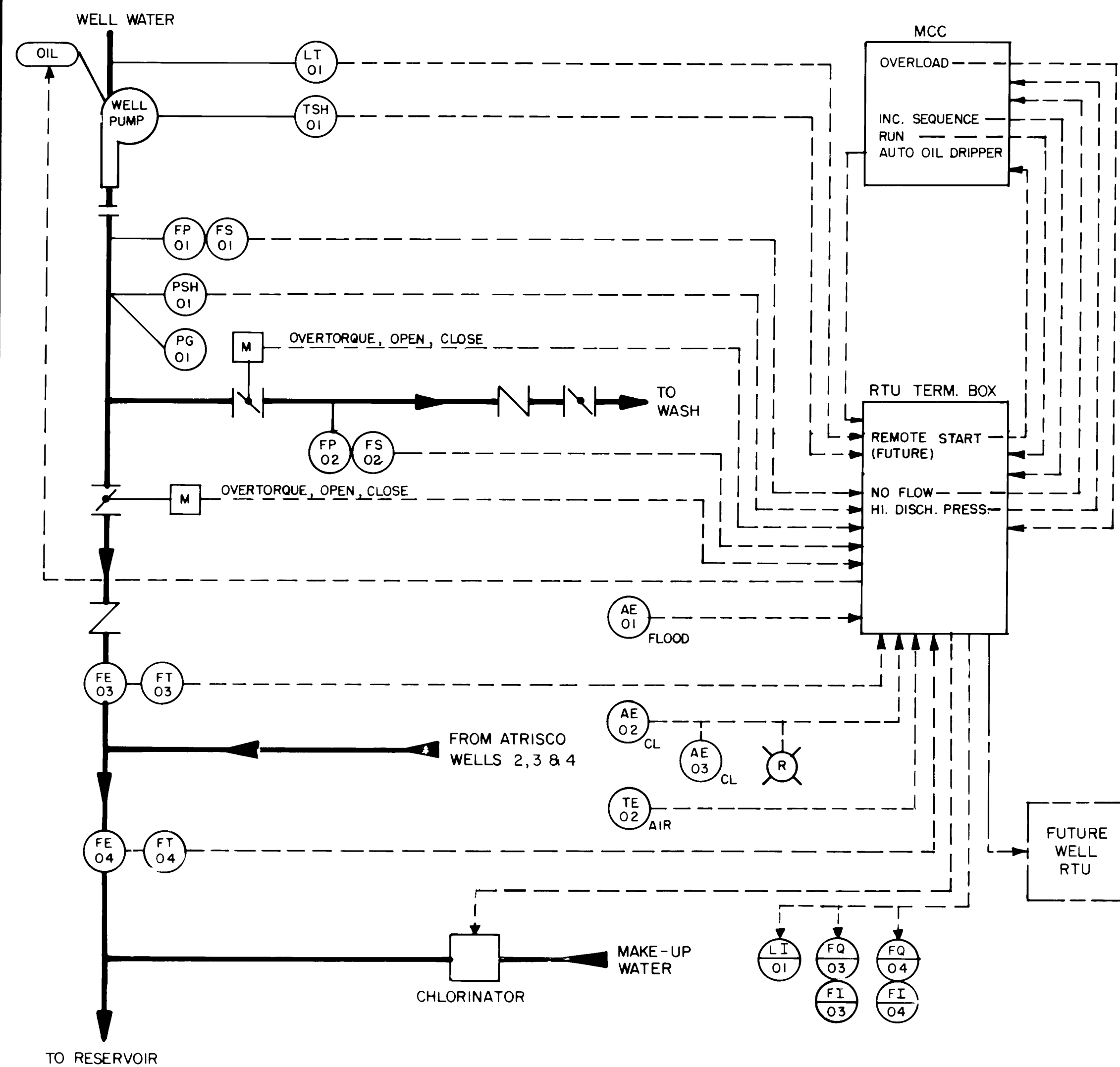
TITLE: ATRISCO NOS, VOLCANO CLIFFS NO. 3 AND WALKER NO. 1 WELL EQUIPMENT
MECHANICAL PLAN AND SCHEDULE
(ATRISCO NO. 5)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

DRAWING NO. PROJECT NO. 2213 SHEET 15 OF 47

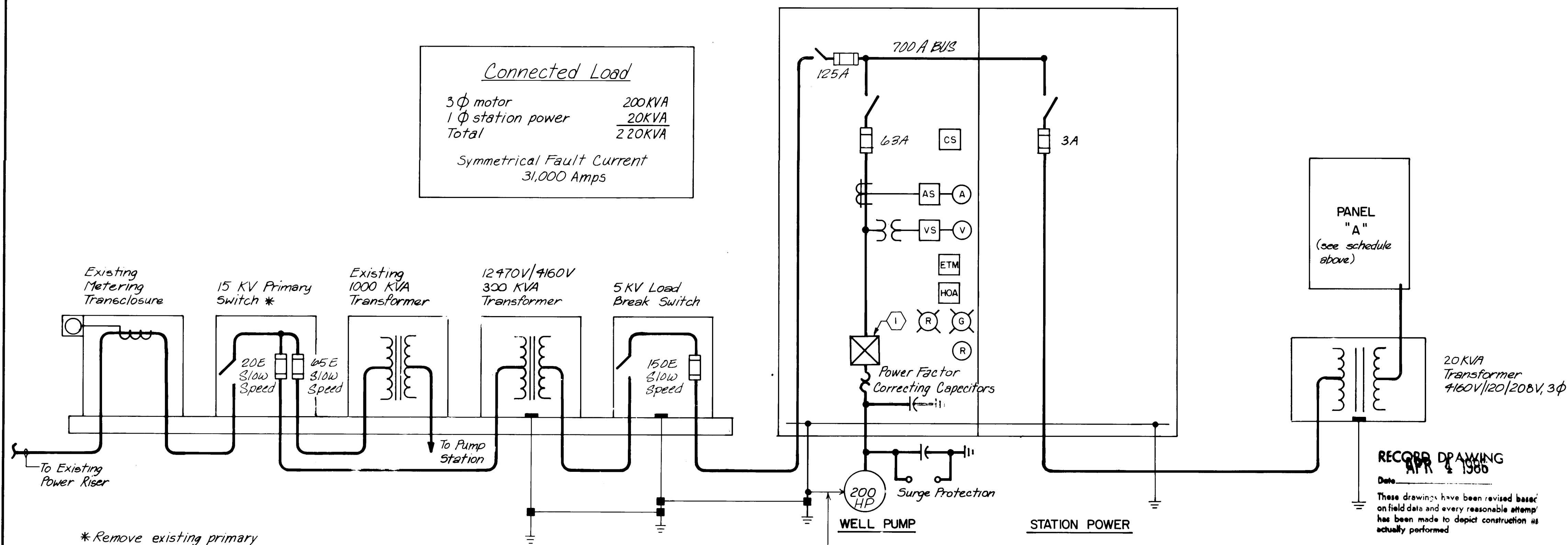
PANEL 'A'									
3Ø, 4 WIRE, S/N, 120/208V, 50A MAIN BREAKER AND 24 CIRCUITS									
CKT.	RTNG.	LOAD DESCRIPTION	LOAD			LOAD DESCRIPTION	RTNG.	CKT.	
			ØA	ØB	ØC				
1	20A	Wash MOV		—	—	Flood Detector Wash Line Leak Detector	20A	2	
3	20A	Line MOV	—	—	—	Chemical Feed Room Heater	20A	4	
5	20A	Exhaust Fan	—	—	—		6		
7	20A	Chlorine Leak Detectors and Chlorinator	—	—	—	Lighting and Receptacles Chemical Feed Chlorine Storage Rms.	20A	8	
9	20A	Spare (Future RTU)	—	—	—	Well Field Flow Totalizer/Indicator, Well Flow Totalizer/Indicator Drawdown Td/IND	20A	10	
11	20A	Spare (Future Radio)	—	—	—	Lighting and Receptacles Equipment Room & Pump Enclosure	20A	12	
13	20A	Equipment Room Heater	—	—	—	Chlorine Removal Receptacle Chlorine Storage Room	30A GFI	14	
15			—	—	—	Spare	20A	16	
17			—	—	—	Spare	20A	18	
19	20A	Evaporative Cooler		—	—	Spare	20A	20	
21	20A	Chlorine Storage Room Heater	—	—	—	Well Flowmeters & GFI receptacles	20A	22	
23			—	—	—	Spare	20A	24	
						TOTAL LOAD			

PANEL SCHEDULE
LOADS SHALL BE BALANCED IN THE FIELD



PIPING & INSTRUMENT DIAGRAM
NOT TO SCALE

Connected Load	
3Ø motor	200KVA
1Ø station power	20KVA
Total	220KVA
Symmetrical Fault Current 31,000 Amps	



ONE LINE DIAGRAM
NOT TO SCALE

NOTES

GORDON HERKENHOFF & ASSOC. INC.
Albuquerque, New Mexico (505) 247-0294

- Magnetic motor starter shall be three leg autotransformer reduced voltage start tapped at 60% with vacuum contactors.
- All fuse interrupting capability and bus bracing shall be rated for a minimum 31,000 A symmetrical fault current.
- Contractor shall complete Panel Schedule 'A' with actual loads when panel is balanced in the field.

ONE-LINE LEGEND

- (A) Ammeter
(AS) Phase-Amp Selector Switch
(ETM) Elapsed Time Meter
(HOA) Hand-Off-Automatic Switch
(V) Voltmeter
(VS) Phase-Volt Selector Switch
(R) Reset Push Button
(CS) Control Switch (Breaker Handle)
- Overload

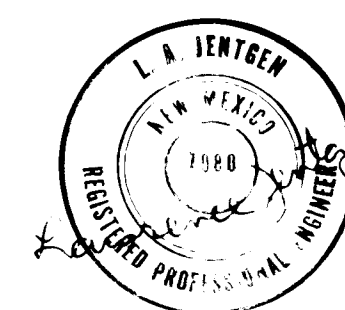
INSTRUMENT LEGEND

- Local Mounted Instrument
Instrument Panel Mounted Instrument
AE_{CL} Analyzer Element (Chlorine)
AE_{FLOOD} Flood Detector
FE Flow Element
FI Flow Indicator
FP Flow Point
FQ Flow Totalizer
FS Flow Switch
FT Flow Transmitter
LT Level Transmitter
PG Pressure Gauge
PSH High Pressure Switch
TE_{AIR} Ambient Air Temperature Element
TSH High Bearing Temperature Switch

PIPING LEGEND

- Butterfly Valve
Check Valve
Motor Operated Valve
Process Line
Instrument Electrical Line

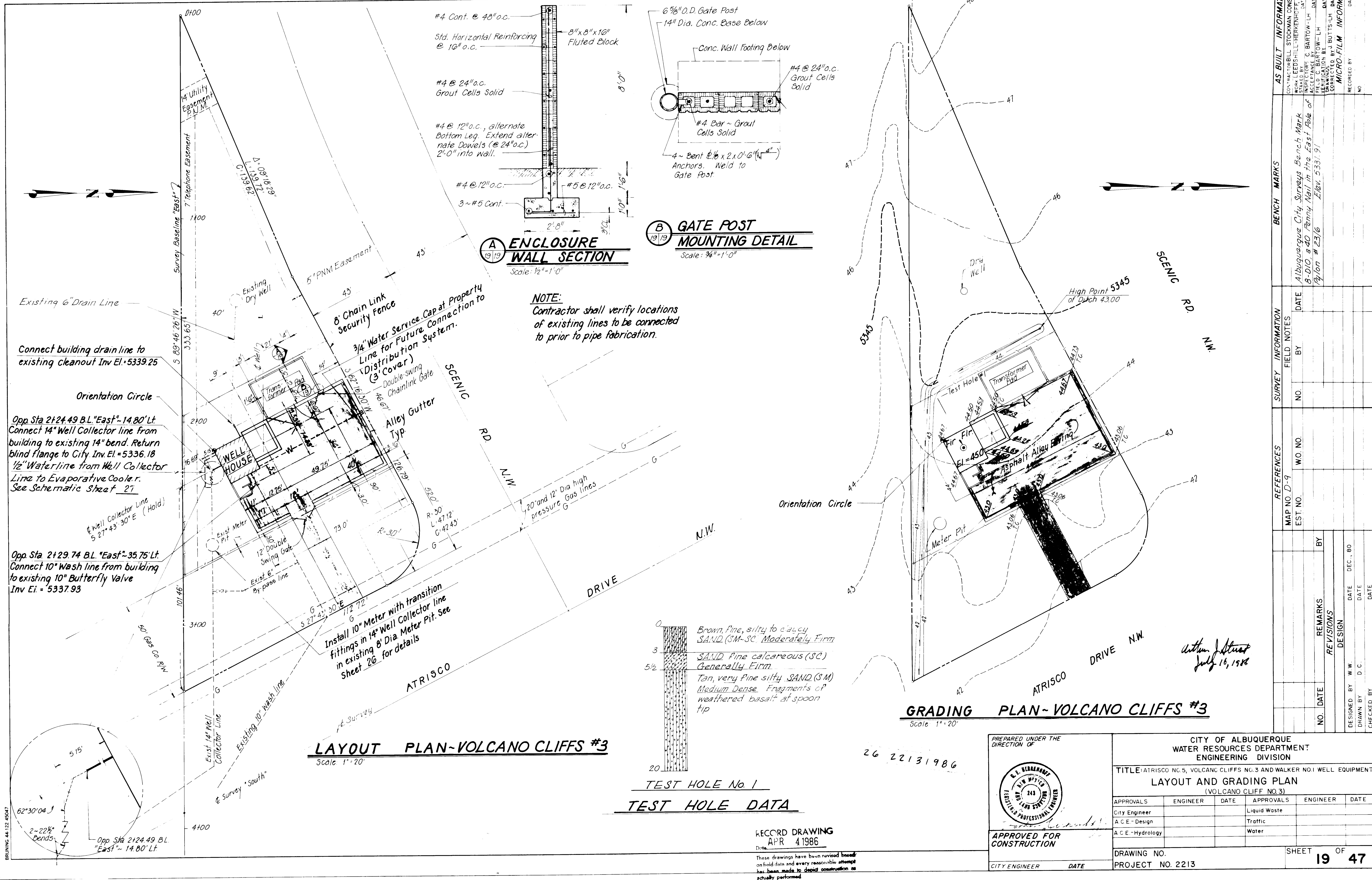
PREPARED UNDER THE
DIRECTION OF

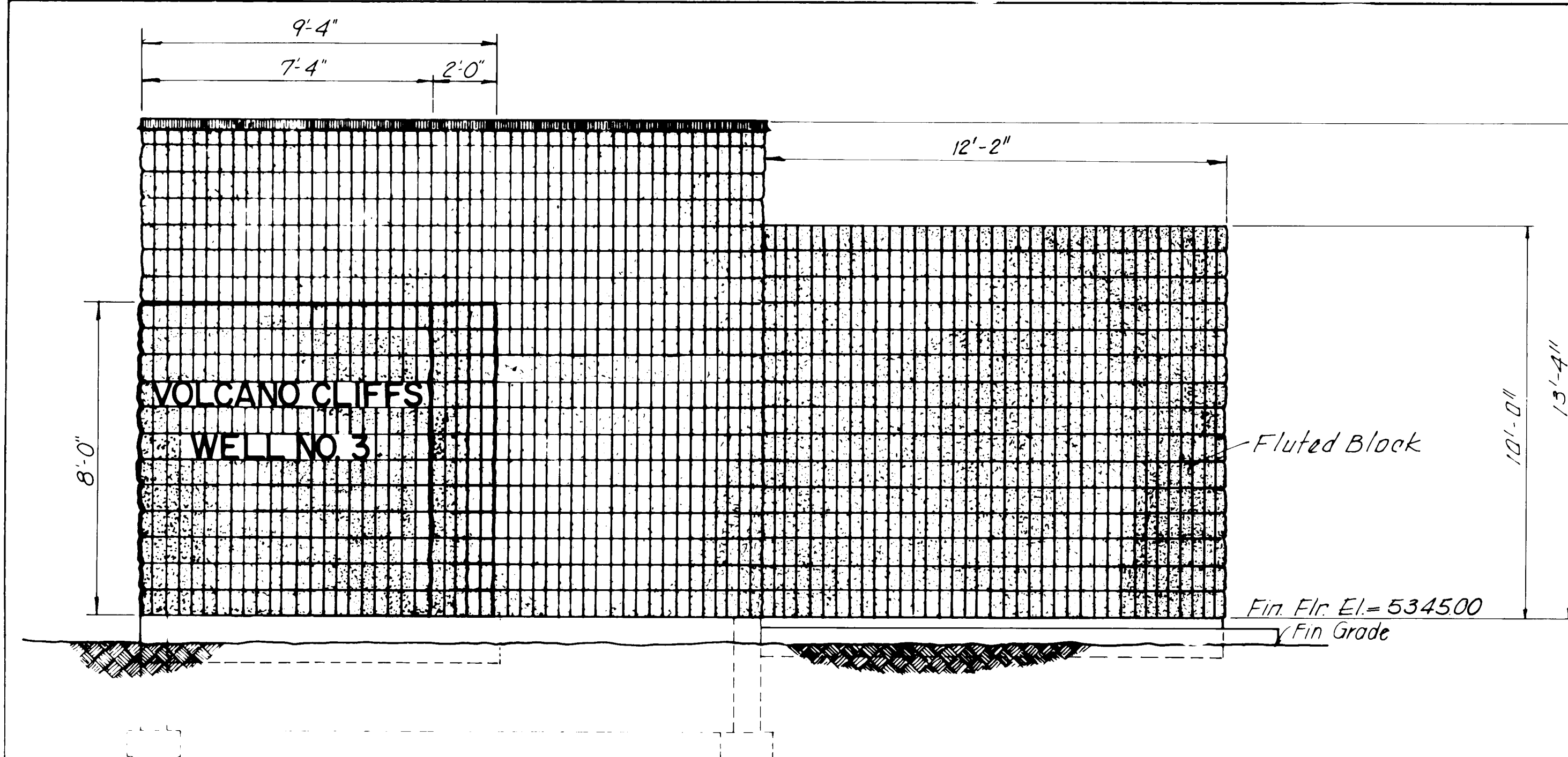


APPROVED FOR
CONSTRUCTION

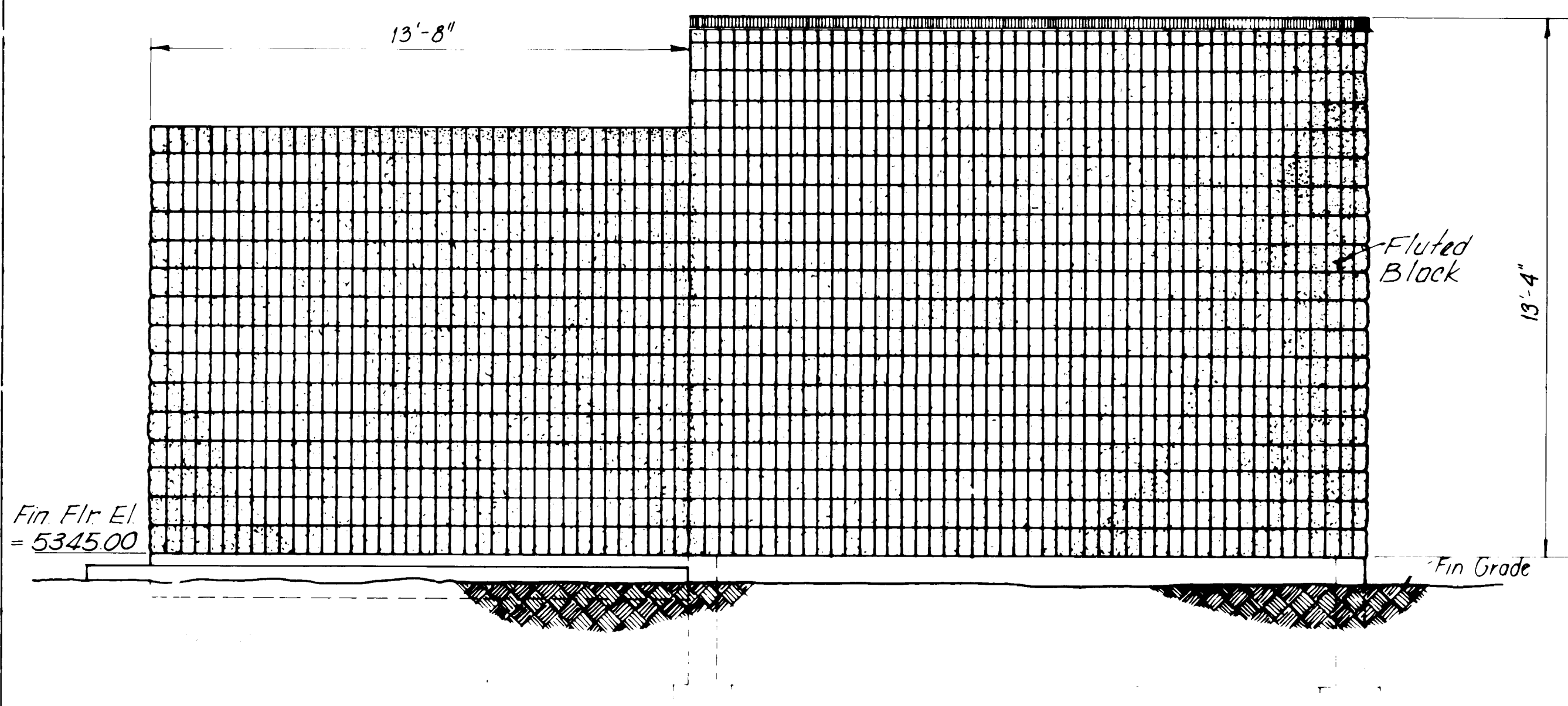
CITY ENGINEER DATE

CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT ENGINEERING DIVISION					
TITLE: ATRISCO NO. 5, VOLCANO CLIFFS NO. 3, AND WALKER NO. 1 WELLS P & ID, ONE LINE DIAGRAM & PANEL SCHEDULE (ATRISCO NO. 5)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		
DRAWING NO. PROJECT NO. 2213			SHEET 17 OF 47		

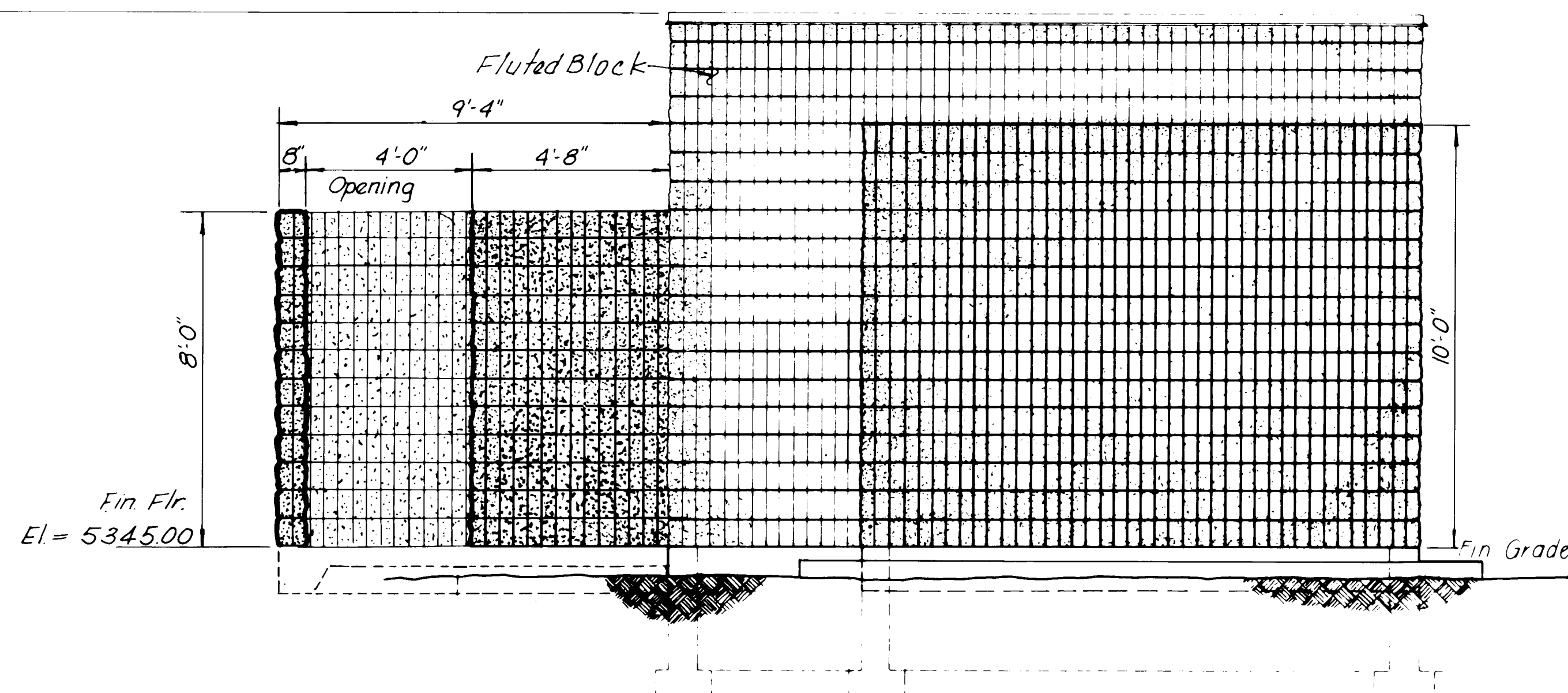




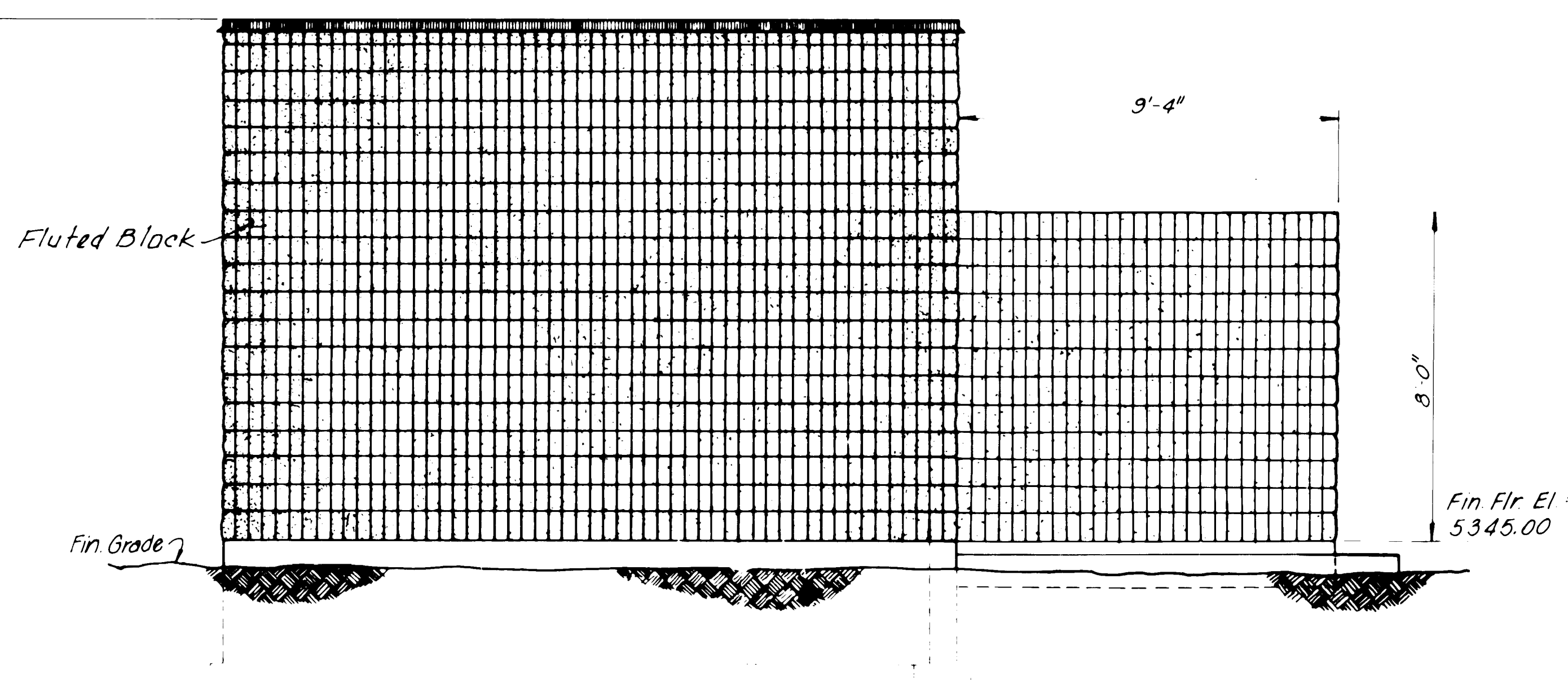
FRONT



BACK



RIGHT SIDE



LEFT SIDE

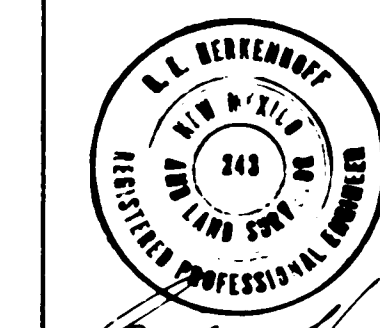
ELEVATIONS
Scale: 3/8" = 1'-0"

RECORD DRAWING
APR 4 1986

These drawings have been reviewed based on field data and every reasonable attempt has been made to depict construction as actually performed.

26 22132086

PREPARED UNDER THE
DIRECTION OF



APPROVED FOR
CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT ENGINEERING DIVISION					
TITLE: ATRISCO NO. 5, VOLCANO CLIFFS NO. 3 AND WALKER NO. 1 WELL EQUIPMENT					
BUILDING ELEVATIONS (VOLCANO CLIFF NO. 3)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		
DRAWING NO.			SHEET		
PROJECT NO. 2213			20 47		

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		REFERENCES		REVISIONS	
CONTRACTOR: BILL STOCKMAN CONST. CO. DRAWN BY: C. BARTOW - LH CHECKED BY: J. BUTTS - LH DATE: 3/86 MICRO-FILM INFORMATION RECORDED BY: NO				FIELD NOTES BY: NO DATE:		MAP NO. EST NO. WO NO.		NO. DATE BY: NO DATE: DEC 95 DESIGN DRAWN BY: DC CHECKED BY:	

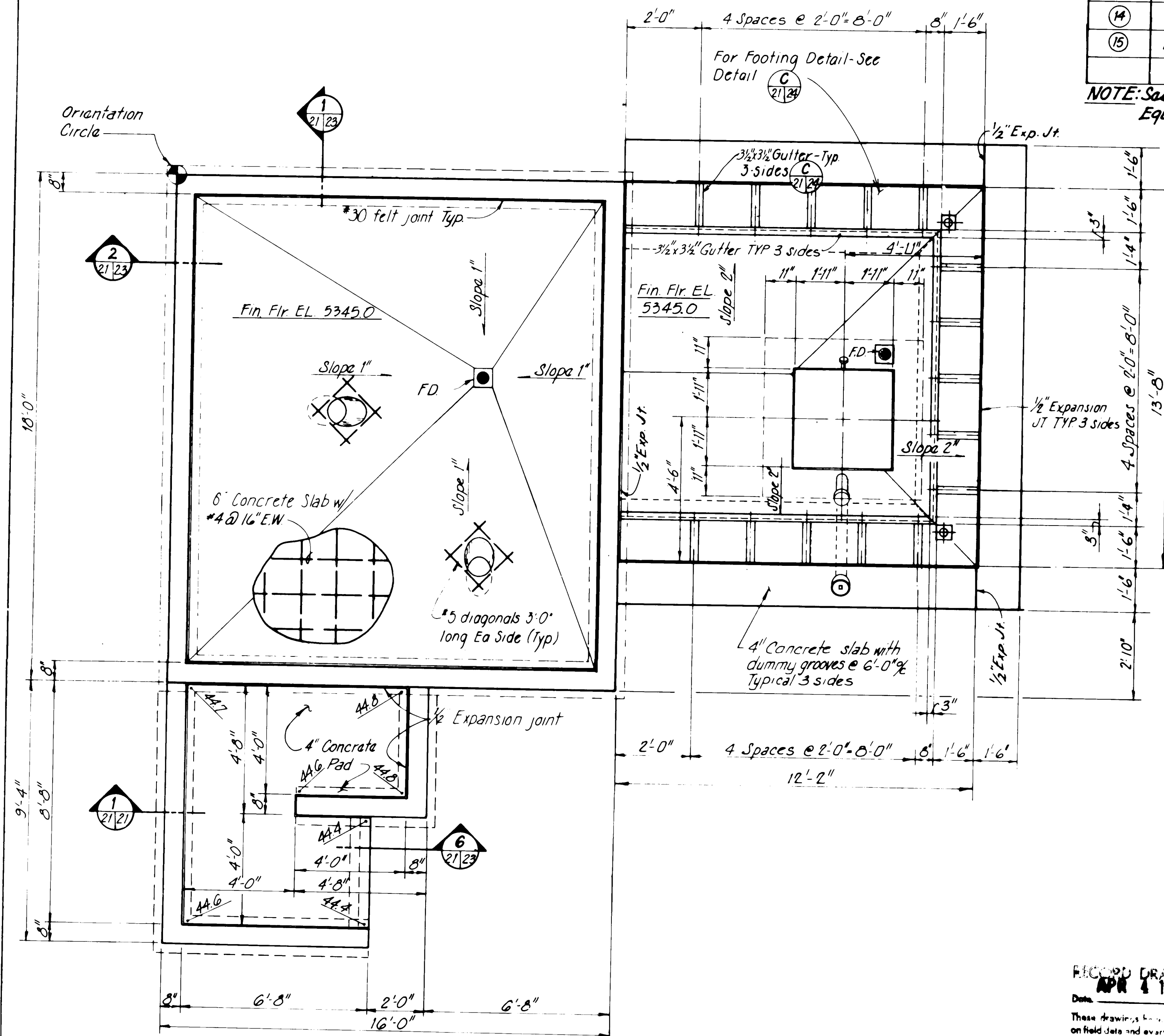
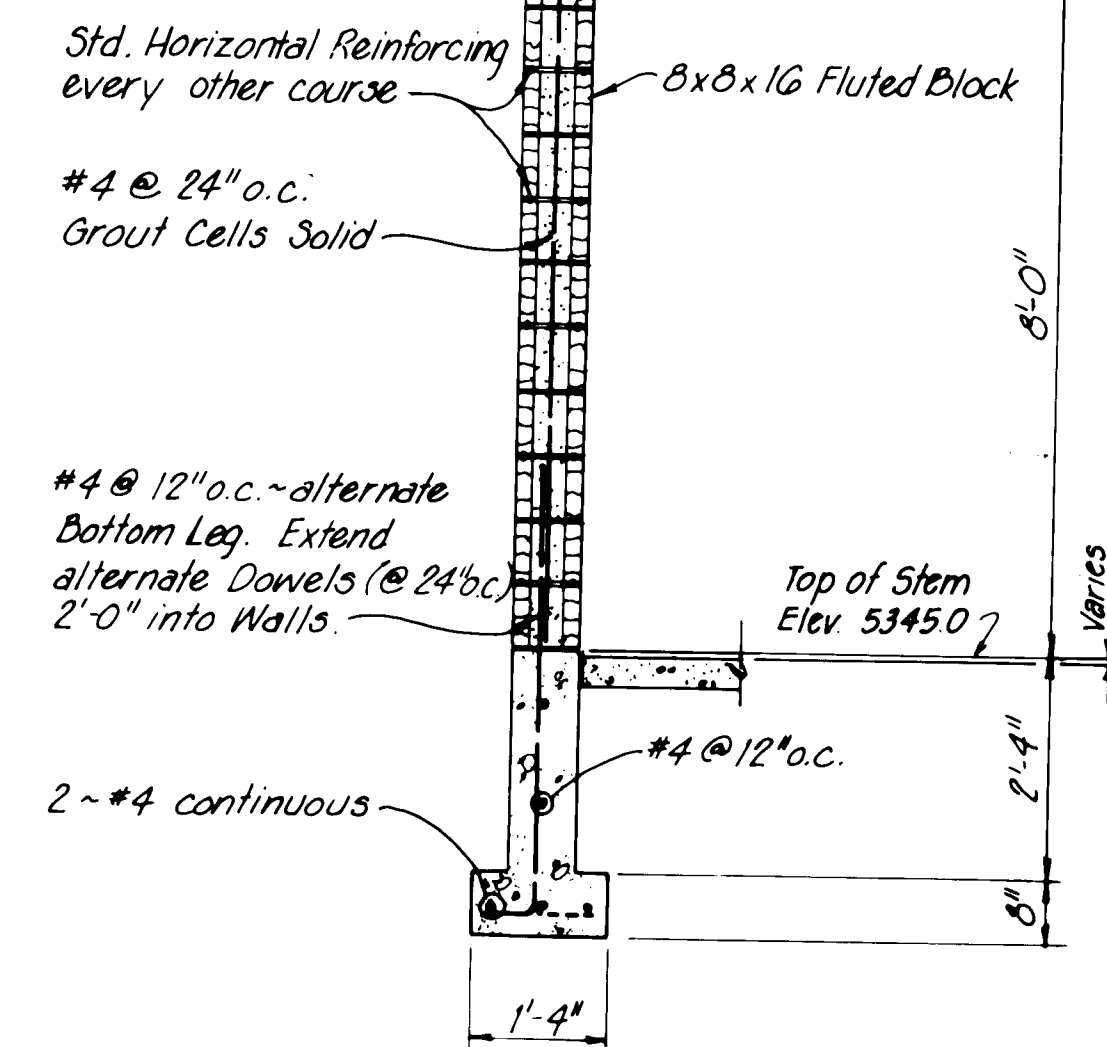
PIPE FITTING SCHEDULE

ITEM	DESCRIPTION
1	Vertical Turbine Pump
2	Reducer 14"x Pump Discharge
3	14" Flexible Coupling w/ Restraints
4	14" Spool
5	Pipe Stand
6	14"x14"x10" Tee
7	14" Motorized Butterfly Valve
8	14"-45° Bend
9	2" Gate Valve
10	2" Air and Vacuum release valve
11	2"-90° Bend
12	10" Spool
13	10" Motorized Butterfly Valve
14	10"-45° Bend
15	Tap for leak detector, bottom of pipe

NOTE: See Electrical Drawings for Electrical Equipment Layout, Sheet 25

BARRIER WALL SECTION

Scale: 1/2" = 1'-0"

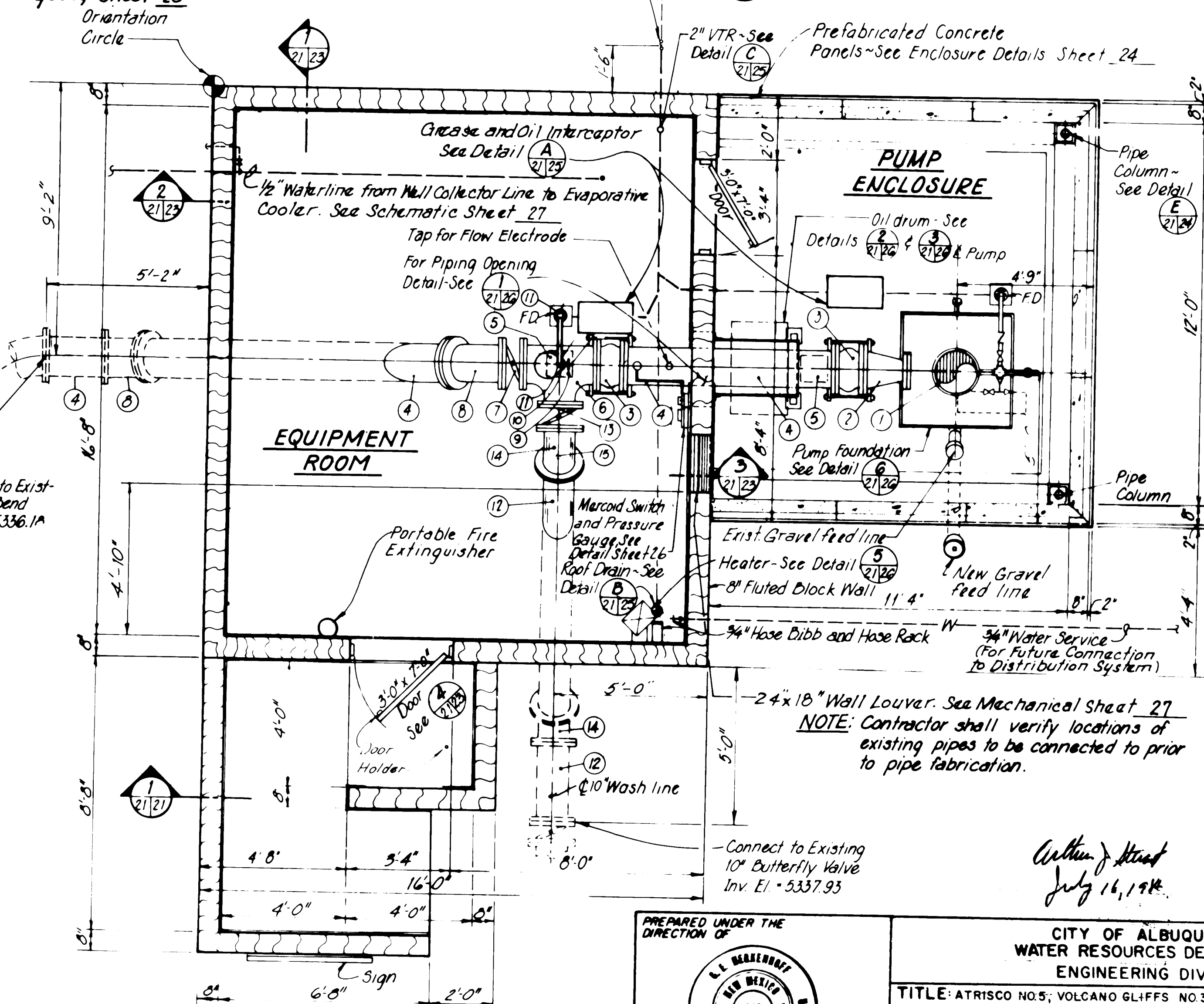


FOUNDATION PLAN

Scale: 3/8" = 1'-0"

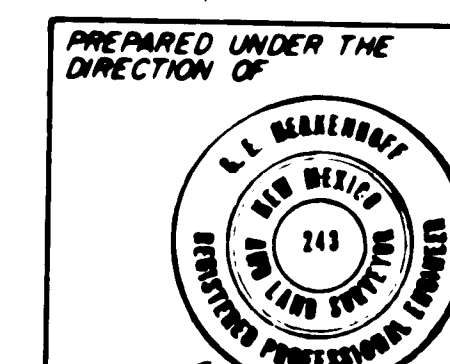
RECORD DRAWING
APR 4 1986

These drawings have been reviewed for conformance with the latest edition of the Uniform Code of Building Regulations and the International Building Code. No changes have been made to depict construction as actually performed.



FLOOR AND PIPING PLAN

Scale: 3/8" = 1'-0"



APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

TITLE: ATRISCO NO. 5, VOLCANO CLIFFS NO. 3 AND WALKER NO. 1 WELL EQUIPMENT
FOUNDATION, FLOOR AND PIPING PLAN

(VOLCANO CLIFFS NO. 3)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

DRAWING NO.
PROJECT NO. 2213

SHEET 21 OF 47

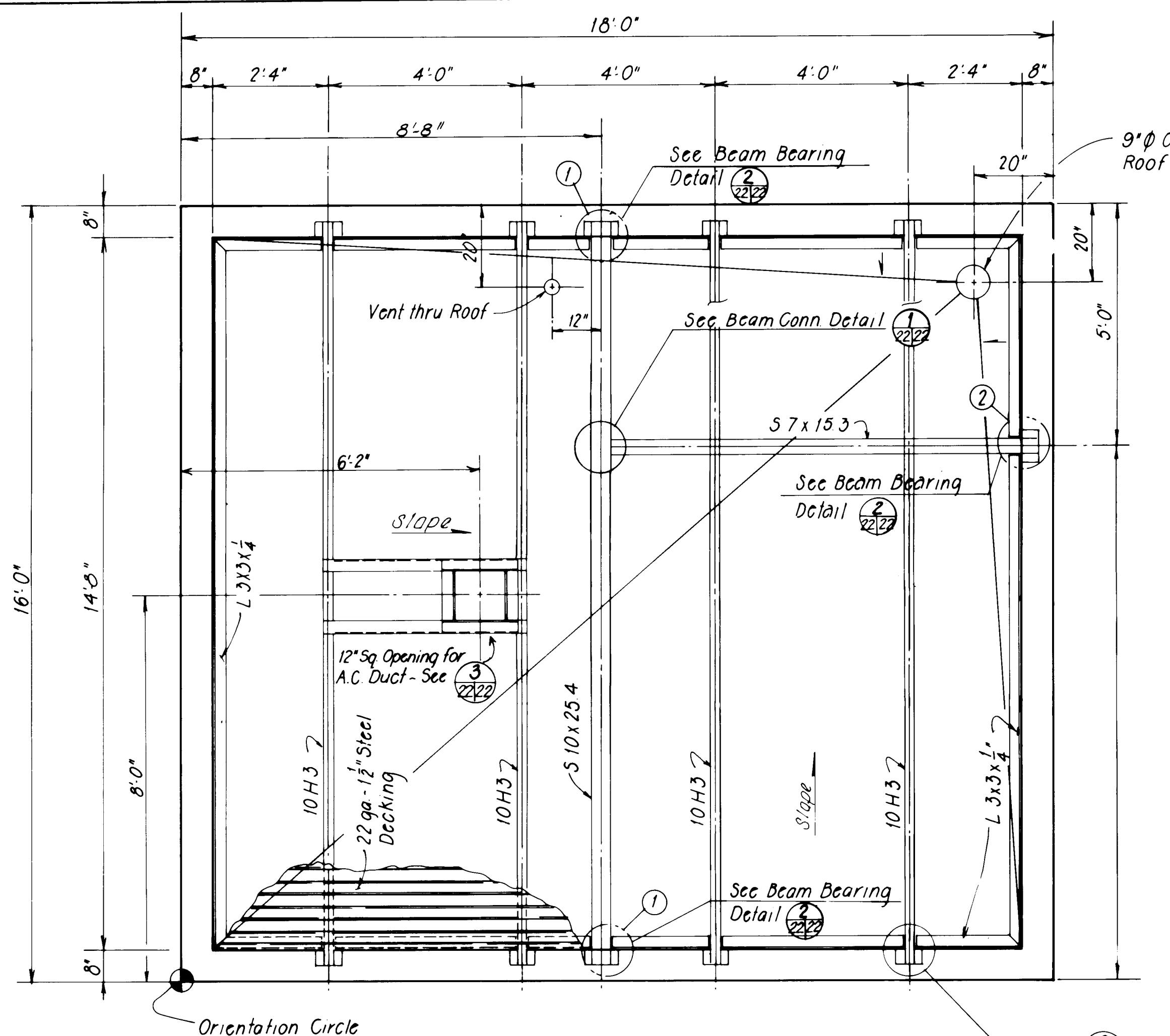
AS BUILT INFORMATION	BENCH MARKS	SURVEY INFORMATION	REFERENCES	REVISIONS	REMARKS
CONTRACTOR BILL STOCKMAN CONST. CO. WORK LEADS HILL-HERKENHOFF, INC. STAMPED BY: [Signature] DATE: 3/86 FIELD: C. BARTON-LH DATE: 3/86 VERIFICATION BY: J. BUTTS-LH DATE: 3/86 CORRECTED BY: J. BUTTS-LH DATE: 3/86 RECORDED BY: [Signature] DATE: []		NO.	W/O NO.	NO.	DATE

NO.	DATE	REVISIONS	REMARKS

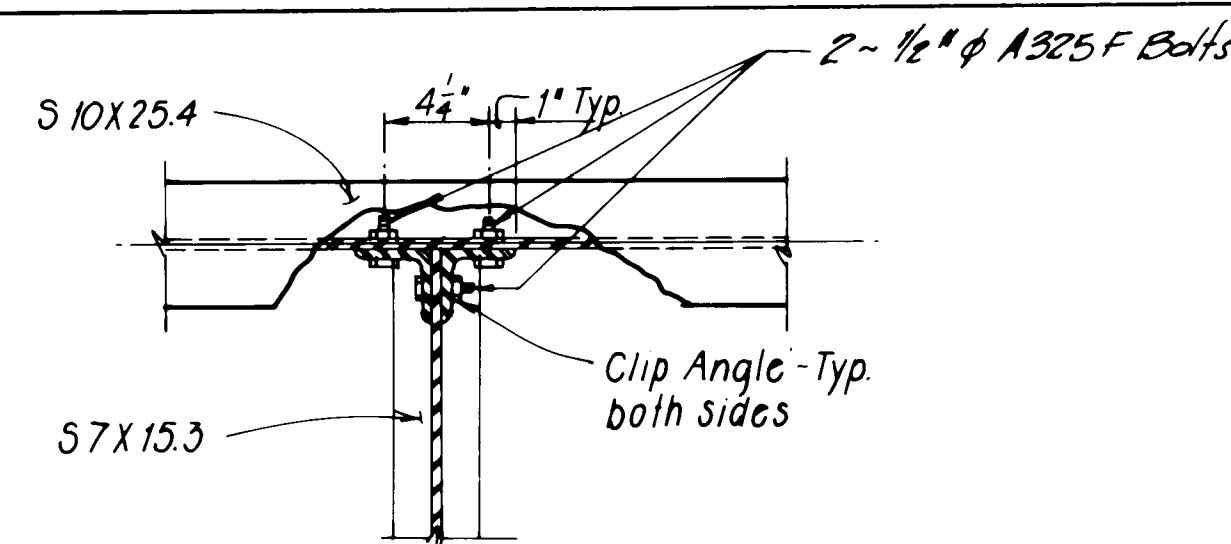
NO.	DATE	REVISIONS	REMARKS

NO.	DATE	REVISIONS	REMARKS

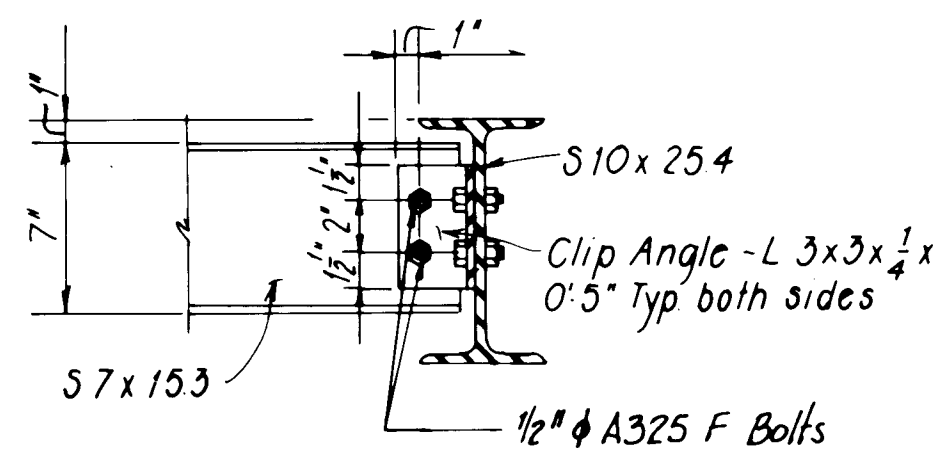
DESIGNED BY	W.W.	DATE	DEC 98
DRAWN BY	D.C.	DATE	DEC 98
CHECKED BY		DATE	



ROOF FRAMING AND DRAINAGE PLAN
Scale: 1/2" = 1'-0"

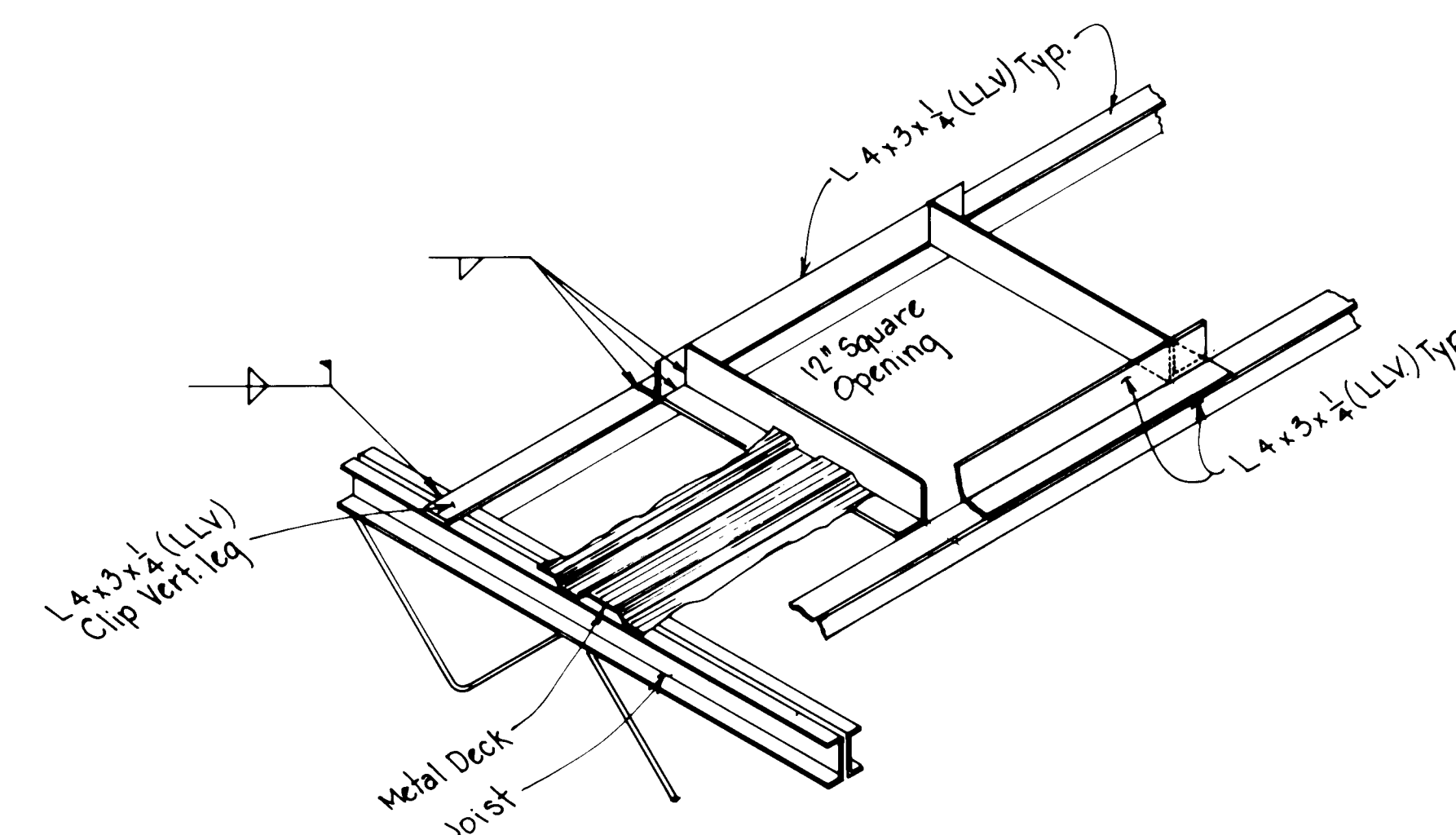


PLAN-SECTION

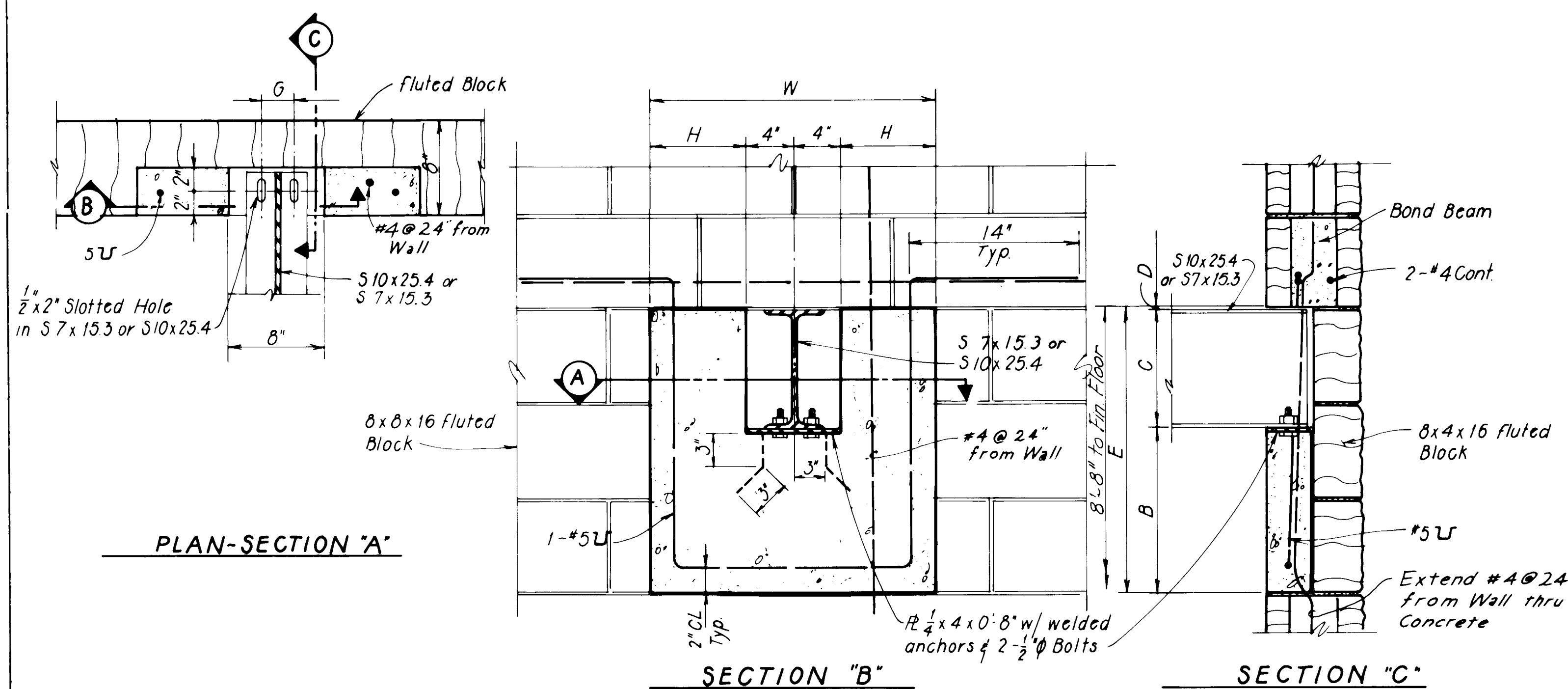


ELEVATION-SECTION

BEAM CONNECTION DETAILS
Scale: 1/2" = 1'-0"



ROOF DUCT PENETRATION SCHEMATIC
Not to Scale. See Sheet 25 for other Roof Penetration Details

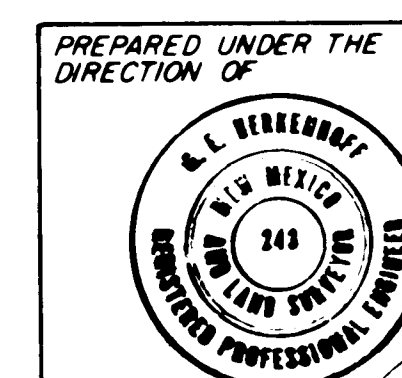


BEAM BEARING DETAILS
Scale: 1/2" = 1'-0"

BEAM BEARING DETAIL SCHEDULE								
Location	A	B	C	D	E	G	H	W
(1)	S10x25.4	14"	10"	0"	24"	2 3/8"	12"	2' 8"
(2)	S7x15.3	8"	7"	1"	16"	2 3/8"	8"	2' 0"

PREPARED UNDER THE
DIRECTION OF
APR 4 1986

26 22132286

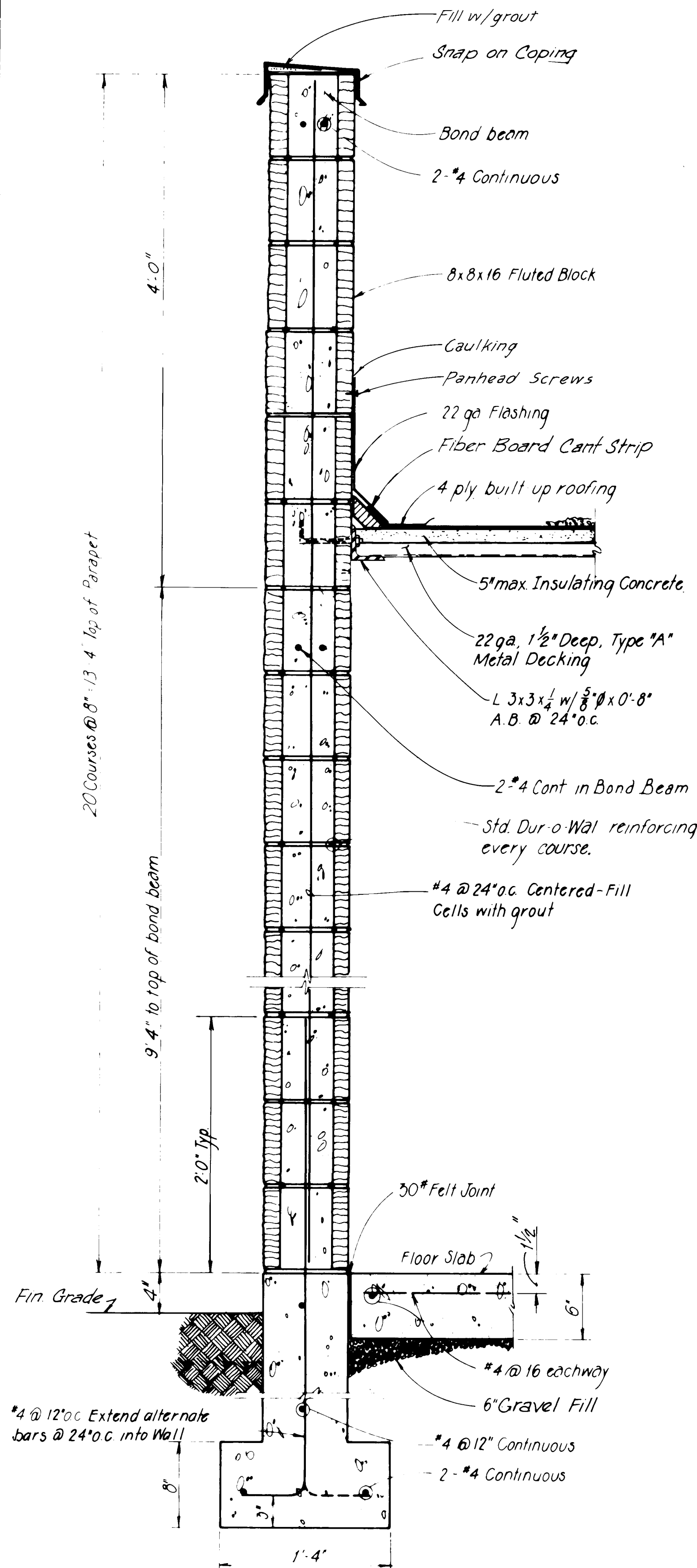


APPROVED FOR
CONSTRUCTION

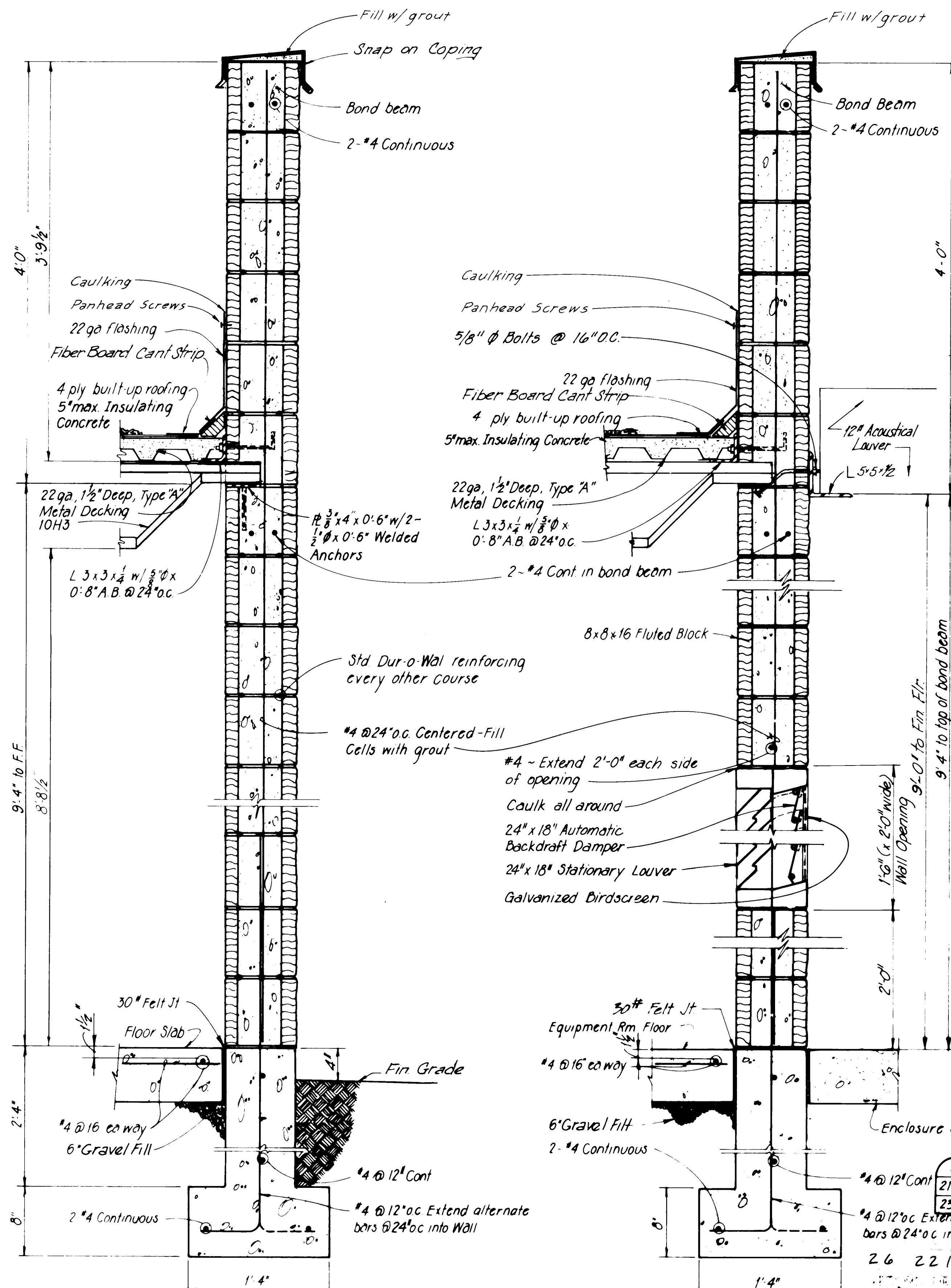
CITY ENGINEER DATE

CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT ENGINEERING DIVISION					
TITLE: ATRISCO NO 5, VOLCANO CLIFFS NO 3 AND WALKER NO 1 WELL EQUIPMENT ROOF FRAMING PLAN AND DETAILS (VOLCANO CLIFFS NO 3)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		
DRAWING NO. PROJECT NO. 2213			SHEET 22 OF 47		

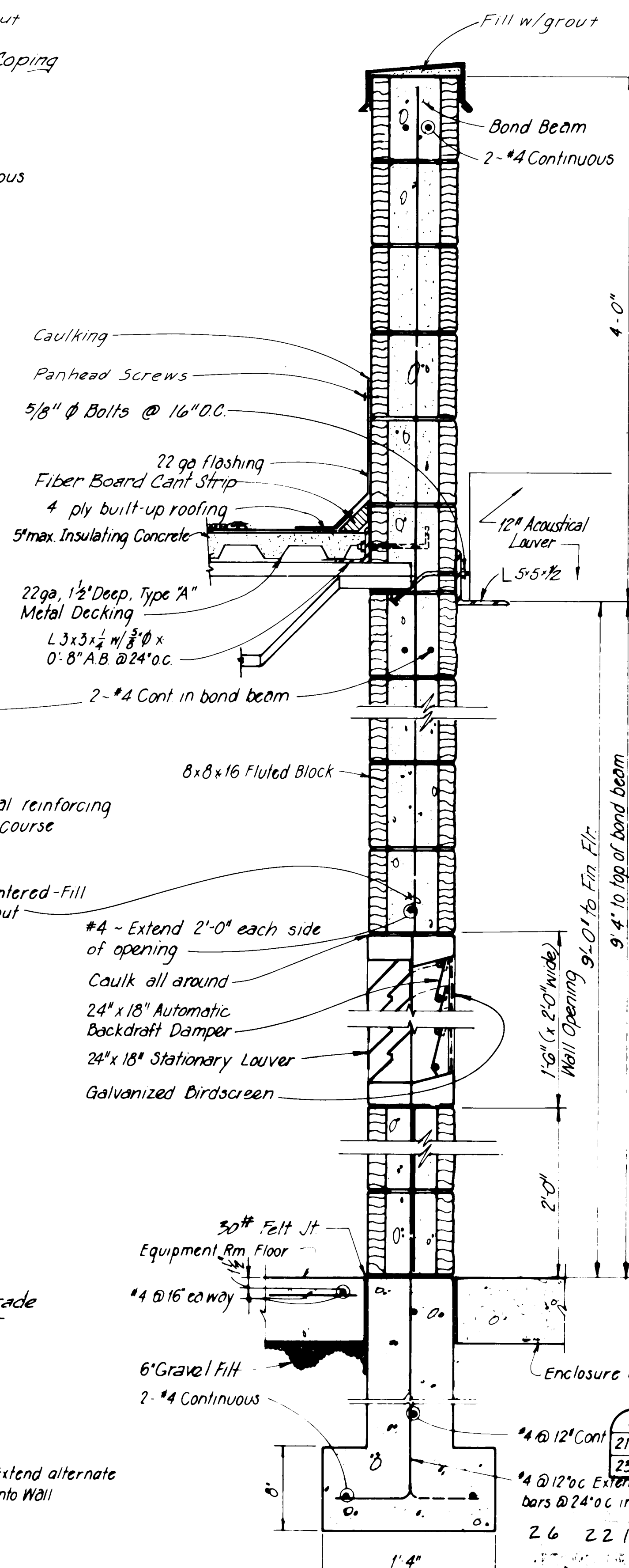
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		REFERENCES	
CONTRACTOR: BILL STOCKMAN CONST. CO.	INSPECTOR: C. BARTOW - L.H.	DATE: 3/86	NO.	W.O. NO.	MAP NO.	EST. NO.	BY
MICRO-FILM INFORMATION		REVISIONS		NO. DATE		DESIGNED BY W.W. D.C. DATE DEC. 80	
RECORDED BY		DATE		NO.		CHECKED BY	



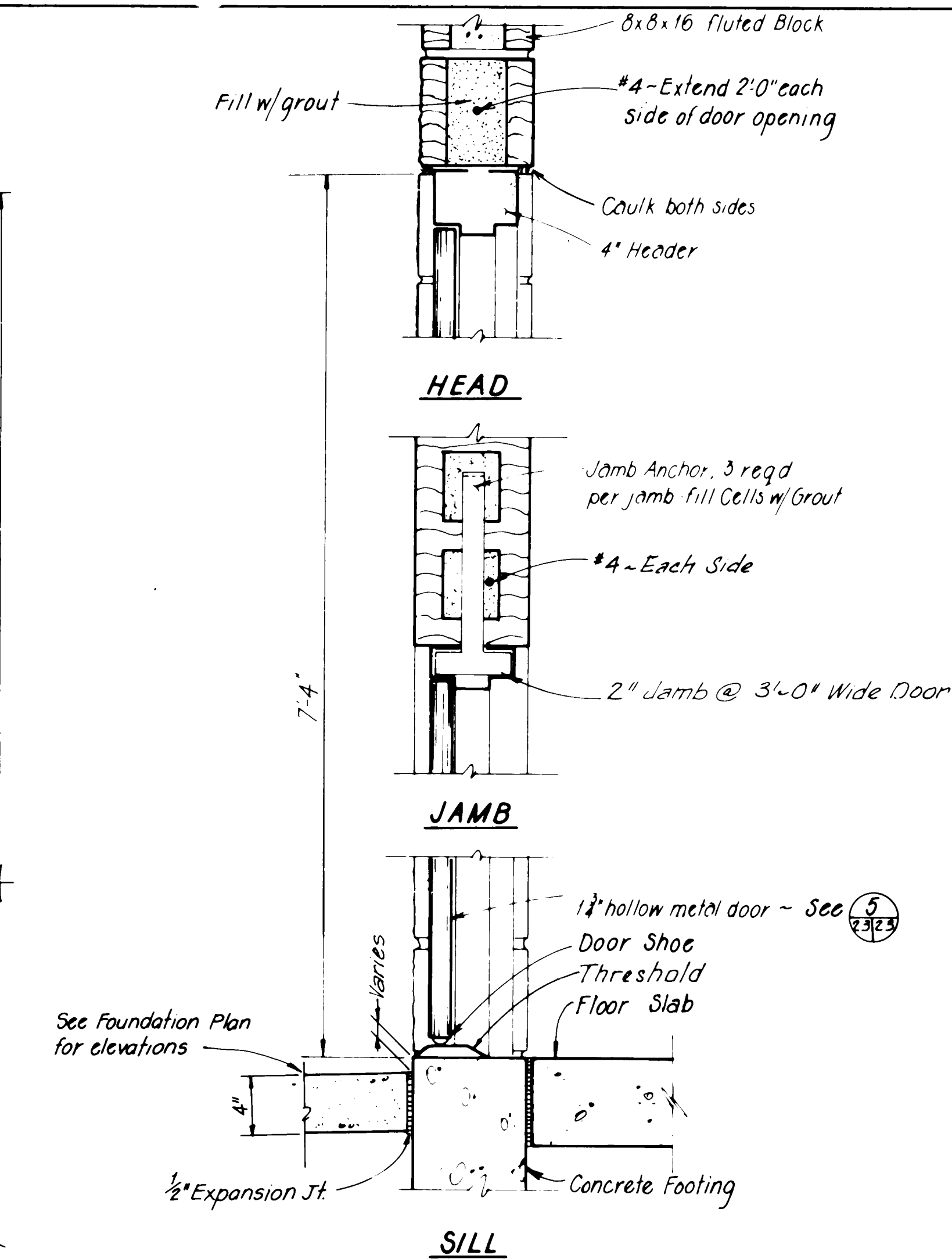
1 SECTION
Scale 1 1/2" = 1'-0"



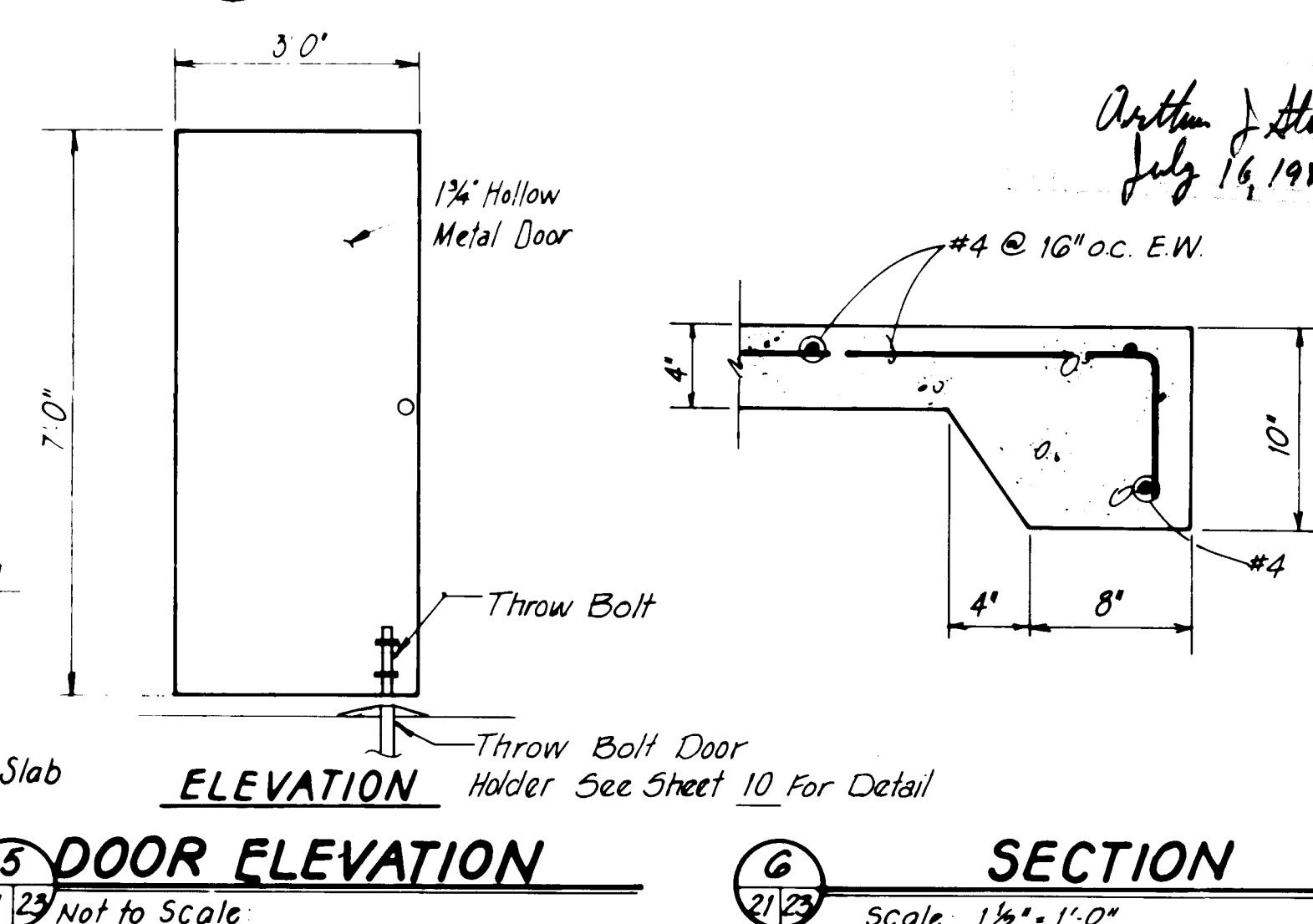
2 SECTION
Scale 1 1/2" = 1'-0"



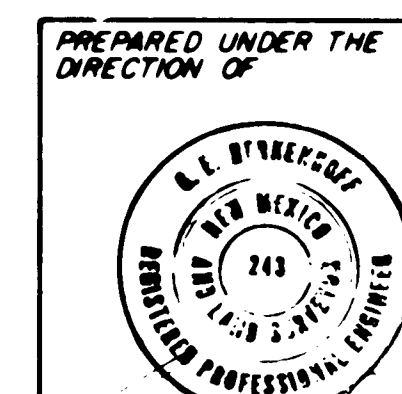
3 SECTION
Scale 1 1/2" = 1'-0"



4 TYP. DOOR SECTION
Scale 1/2" = 1'-0"



5 DOOR ELEVATION
Scale 1 1/2" = 1'-0"



APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT ENGINEERING DIVISION					
TITLE: ATRISCO NO. 5, VOLCANO CLIFFS NO. 3 AND WALKER NO. 1 WELL EQUIPMENT WALL SECTIONS AND DOOR DETAILS (VOLCANO CLIFFS NO. 3)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		
DRAWING NO.			SHEET 23 OF 47		
PROJECT NO. 2213					

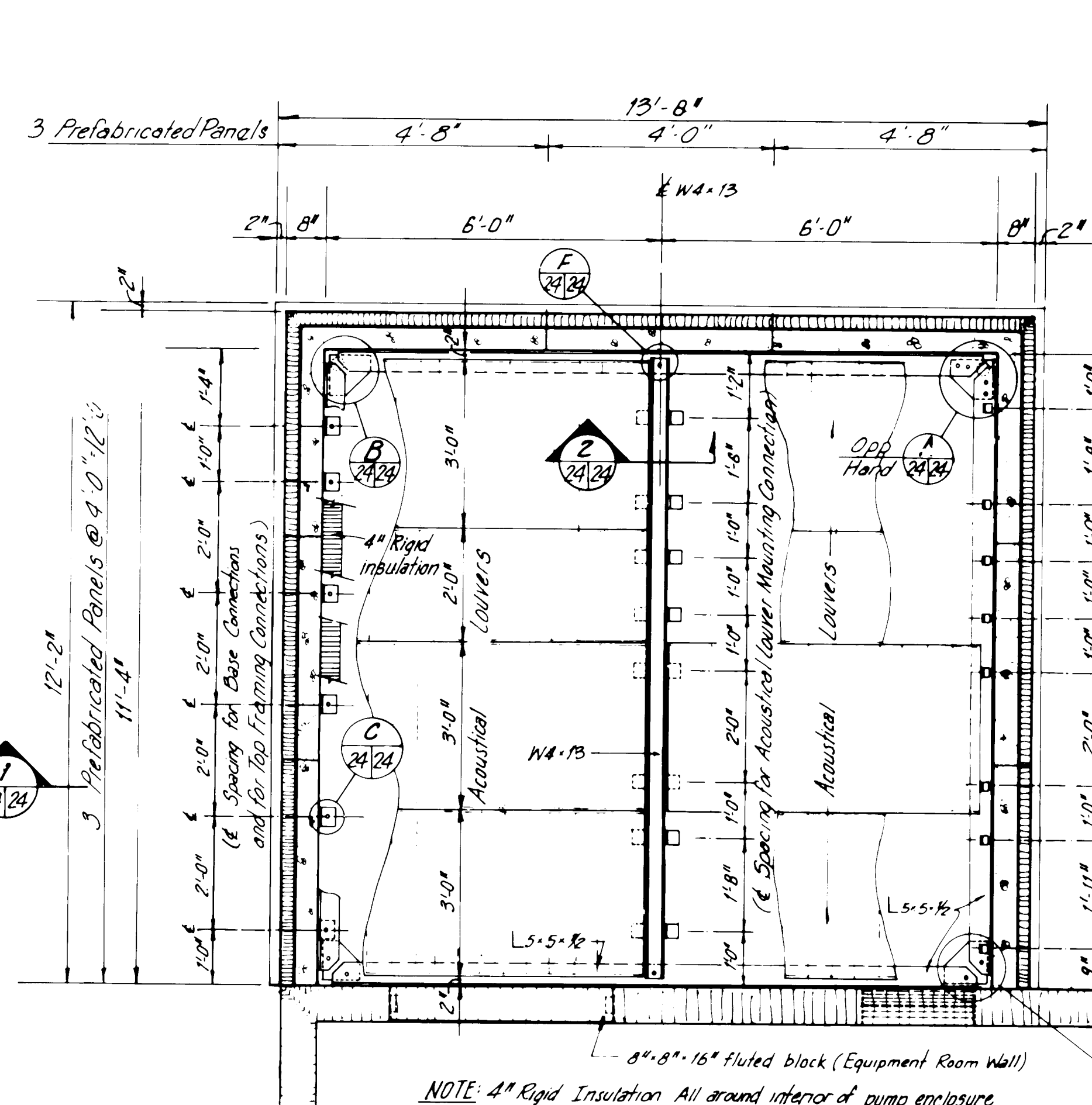
AS BUILT INFORMATION	
CONTRACTOR: BILL STOKMAN CONST. CO.	DATE: 3/86
STATIONED BY: C. BARTON - LH	DATE: 3/86
ACCEPTANCE BY: C. BARTON - LH	DATE: 3/86
FIELD: C. BARTON - LH	DATE: 3/86
DESIGNED BY: J. BUTTS - LH	DATE: 3/86
CHECKED BY: J. BUTTS - LH	DATE: 3/86
RECORDED BY: J. BUTTS - LH	DATE: 3/86

BENCH MARKS	
NO.	DATE

SURVEY INFORMATION	
NO.	DATE

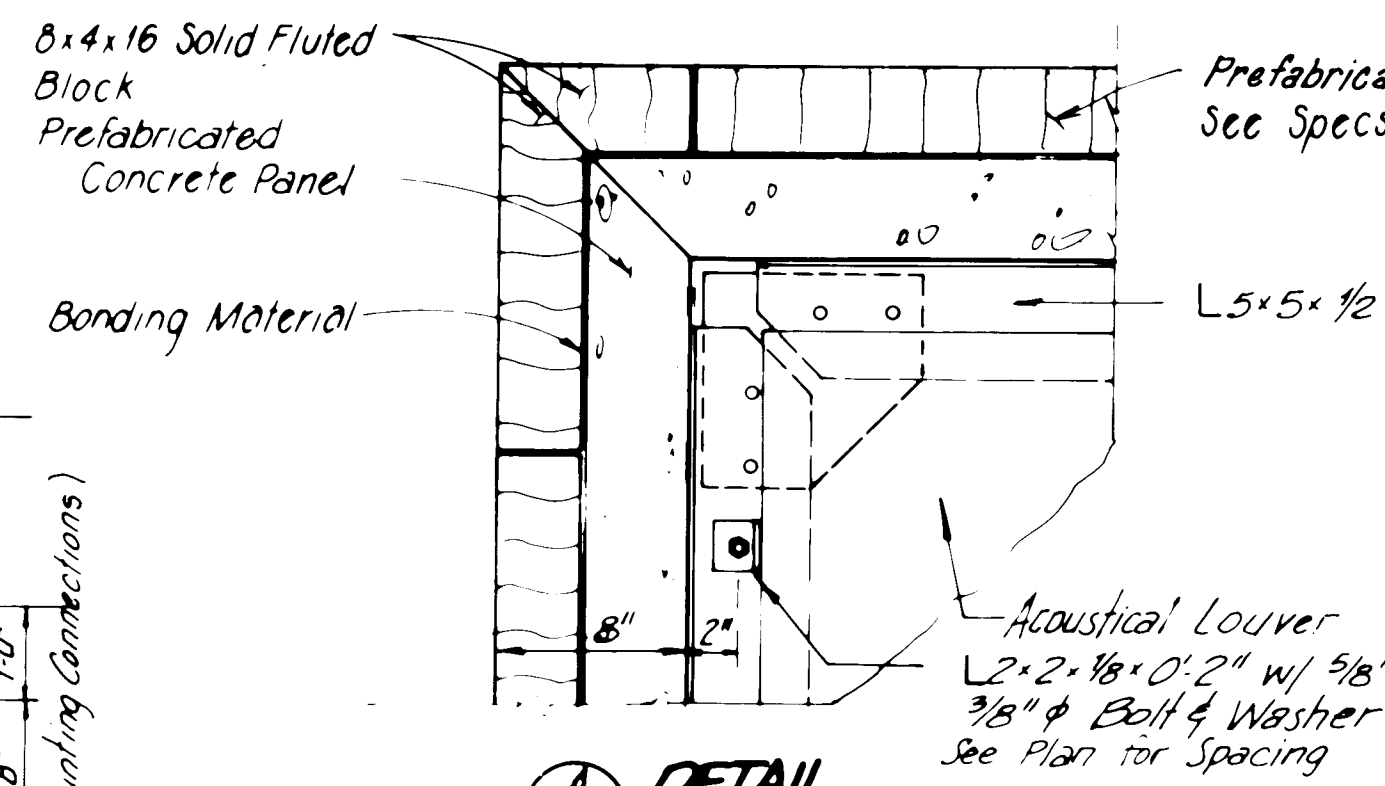
REFERENCES	
MAP NO.	EST. NO.
NO.	DATE

REVISIONS	
NO.	DATE
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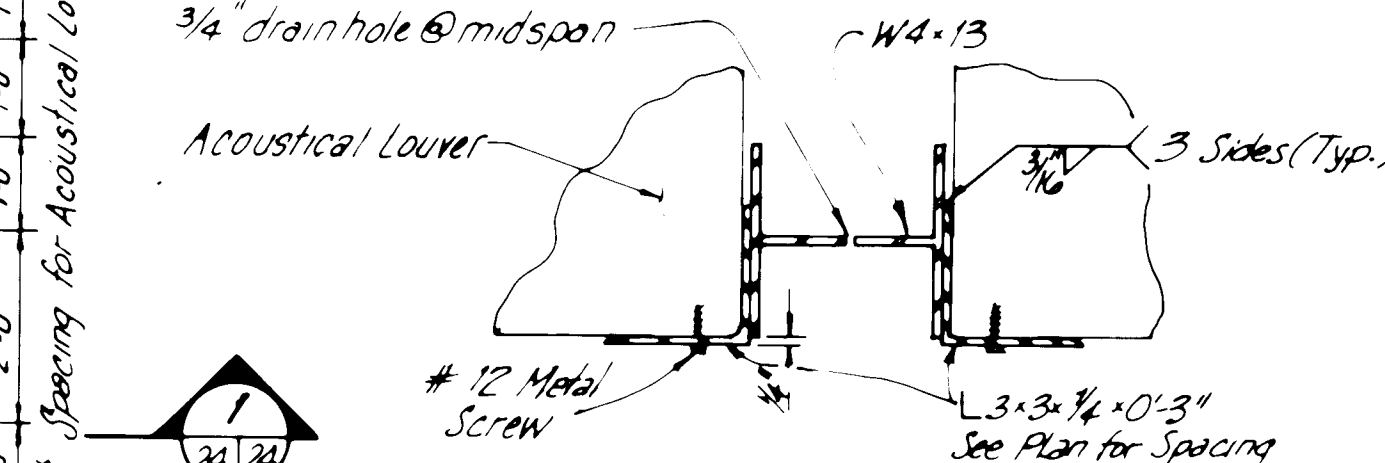
PLAN- PUMP ENCLOSURE

Scale: 1/2"=1'-0"



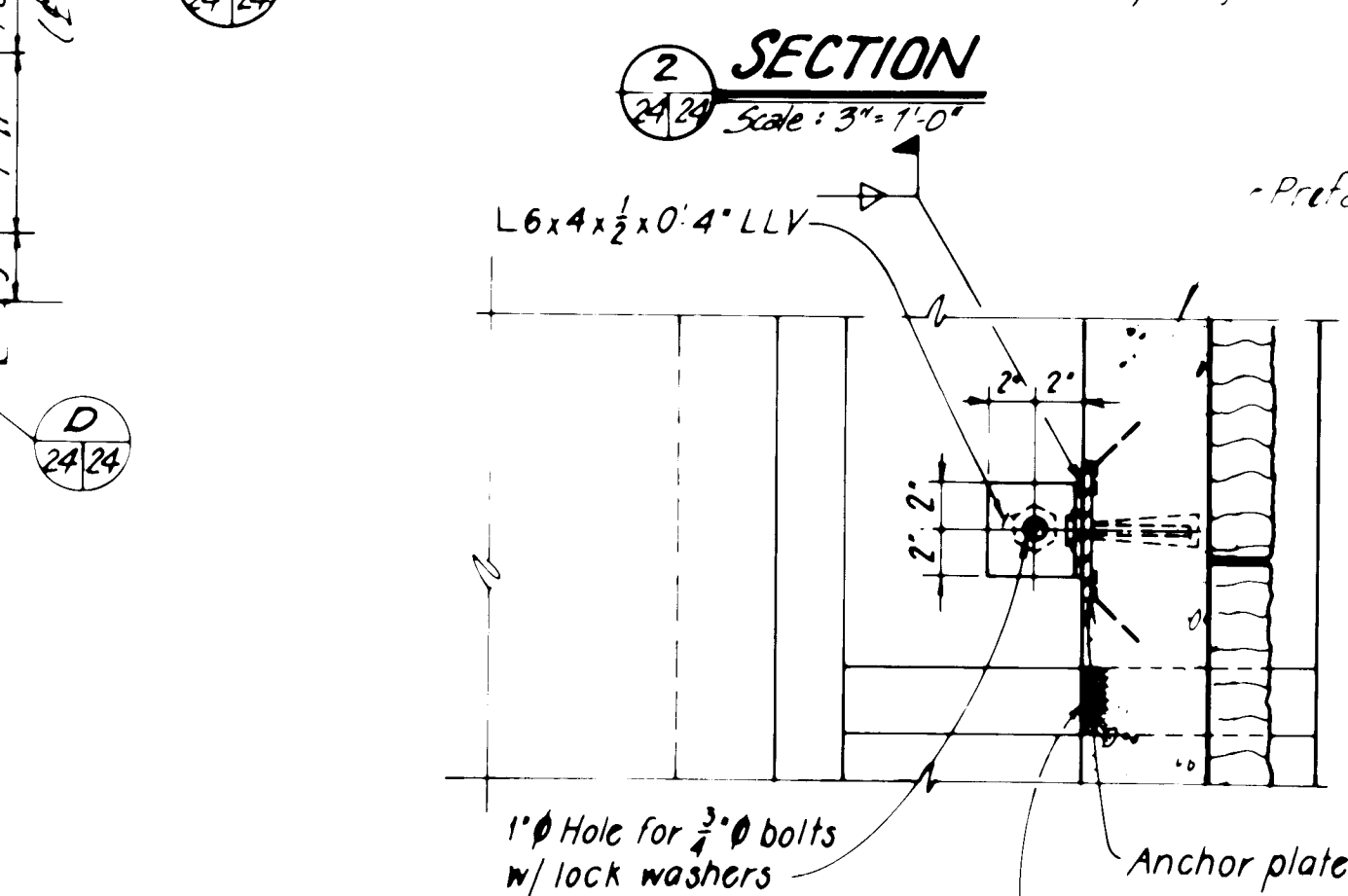
DETAIL A

Scale: 1/2"=1'-0"



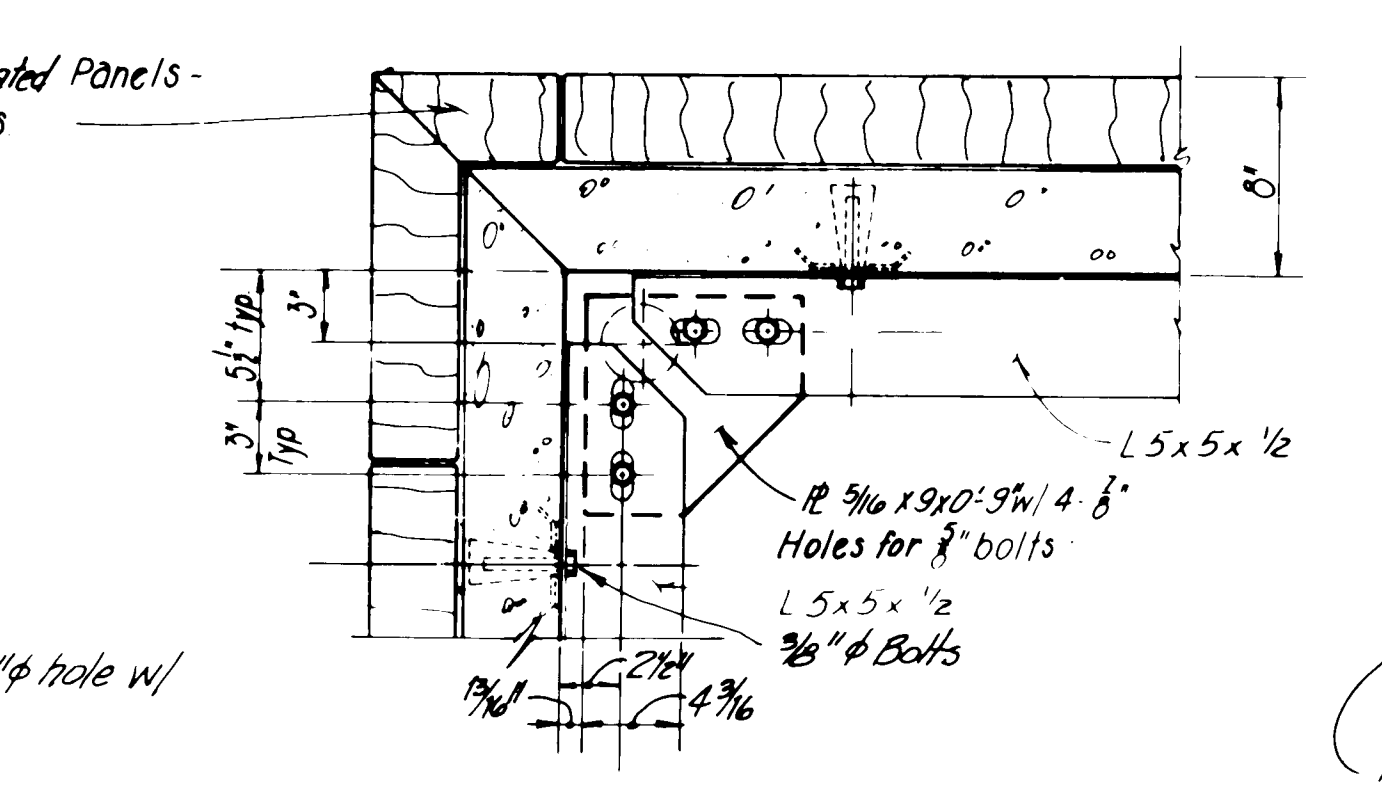
DETAIL B

Scale: 1/2"=1'-0"



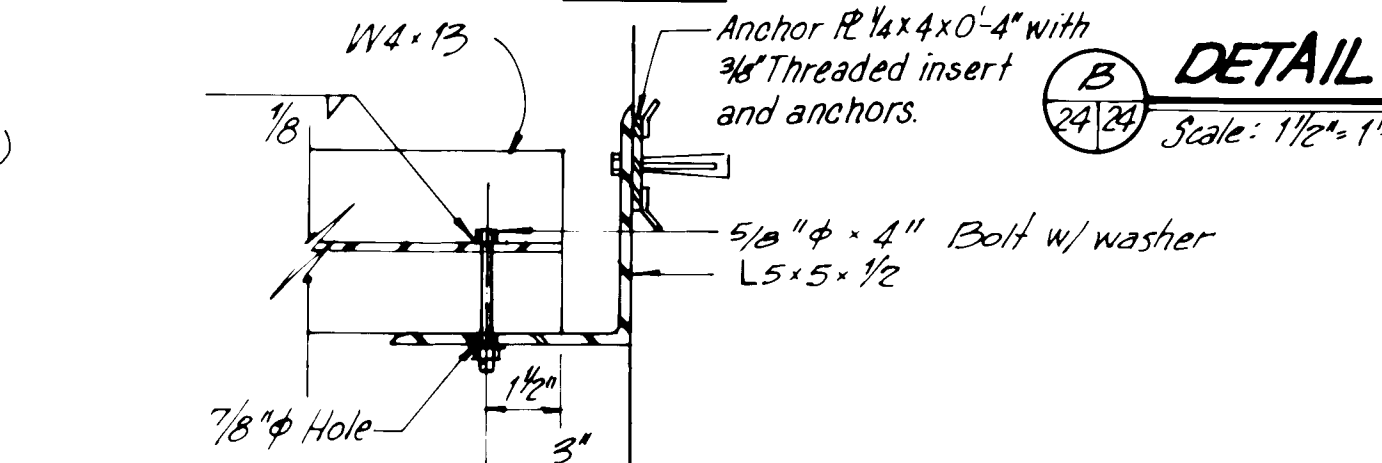
SECTION 2

Scale: 3/4"=1'-0"



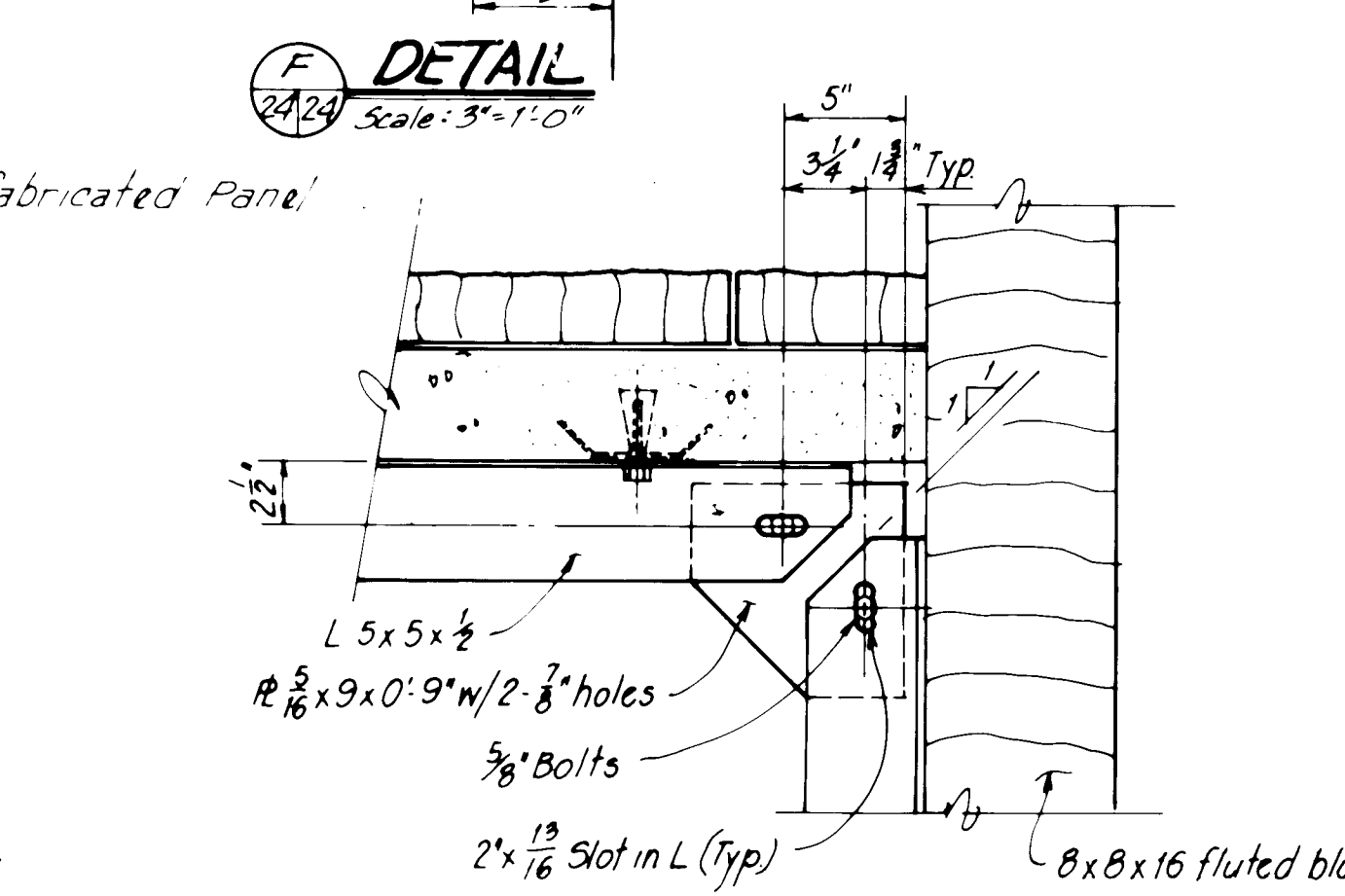
DETAIL C

Scale: 1/2"=1'-0"



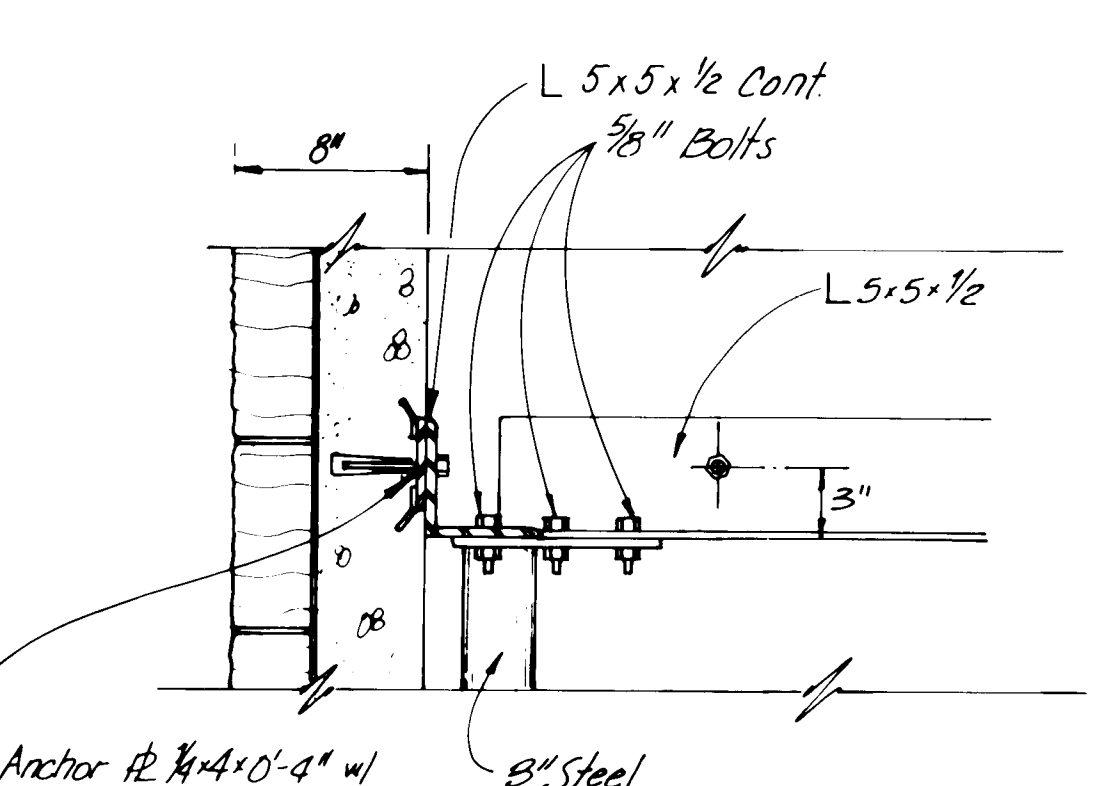
DETAIL D

Scale: 3/4"=1'-0"



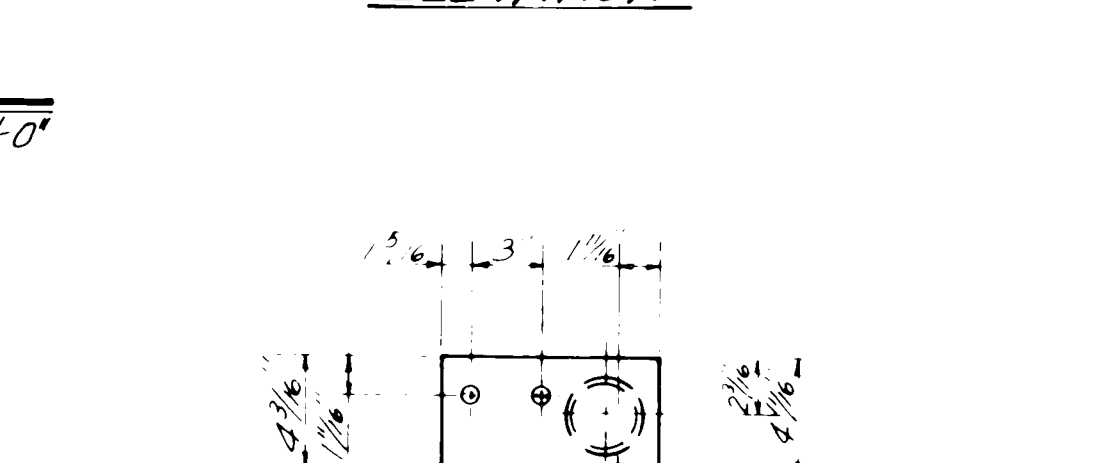
DETAIL E

Scale: 1/2"=1'-0"



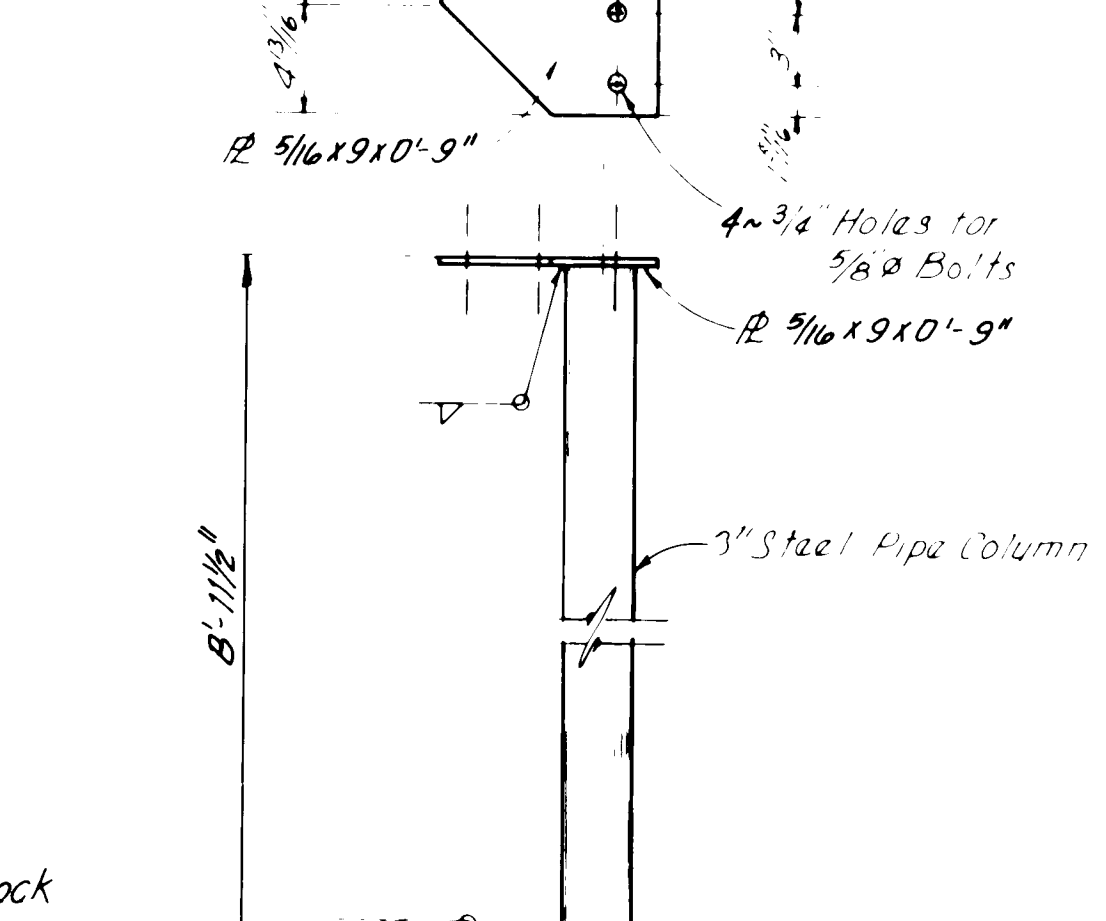
DETAIL F

Scale: 1/2"=1'-0"



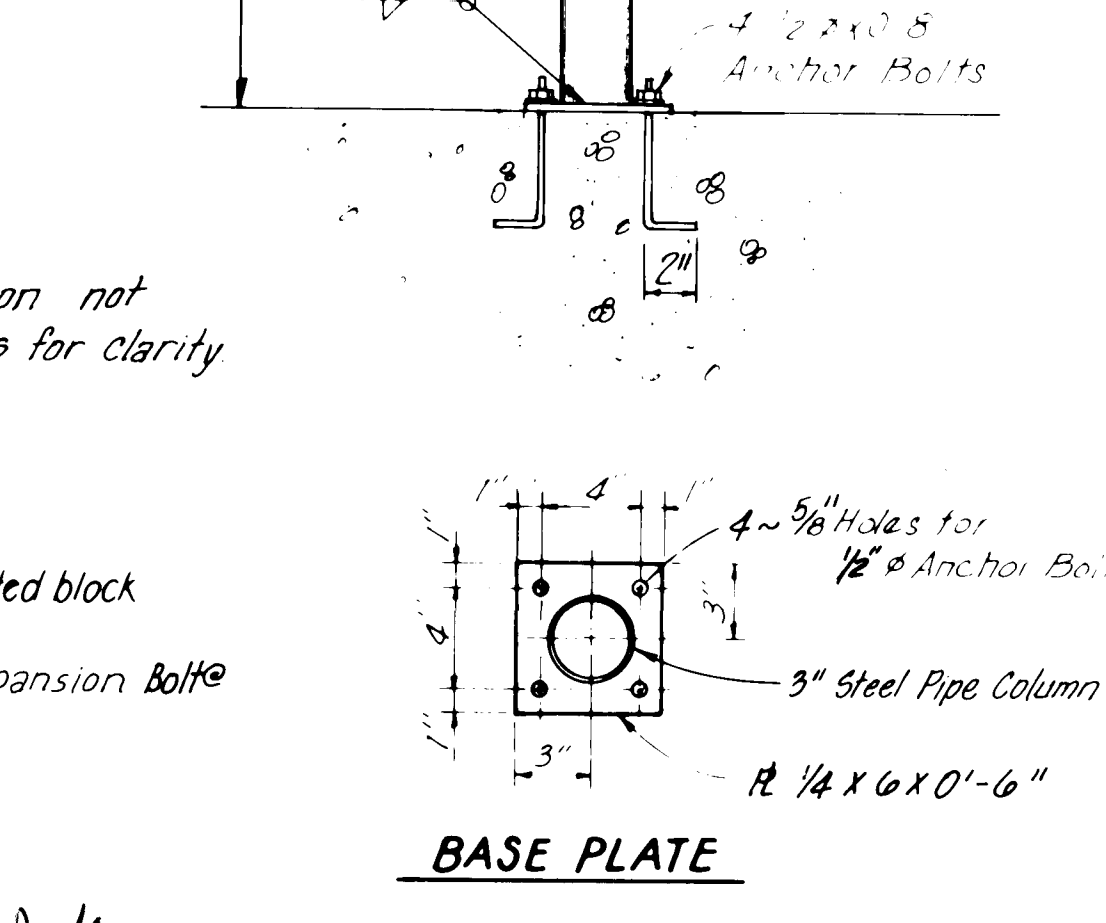
DETAIL G

Scale: 1/2"=1'-0"



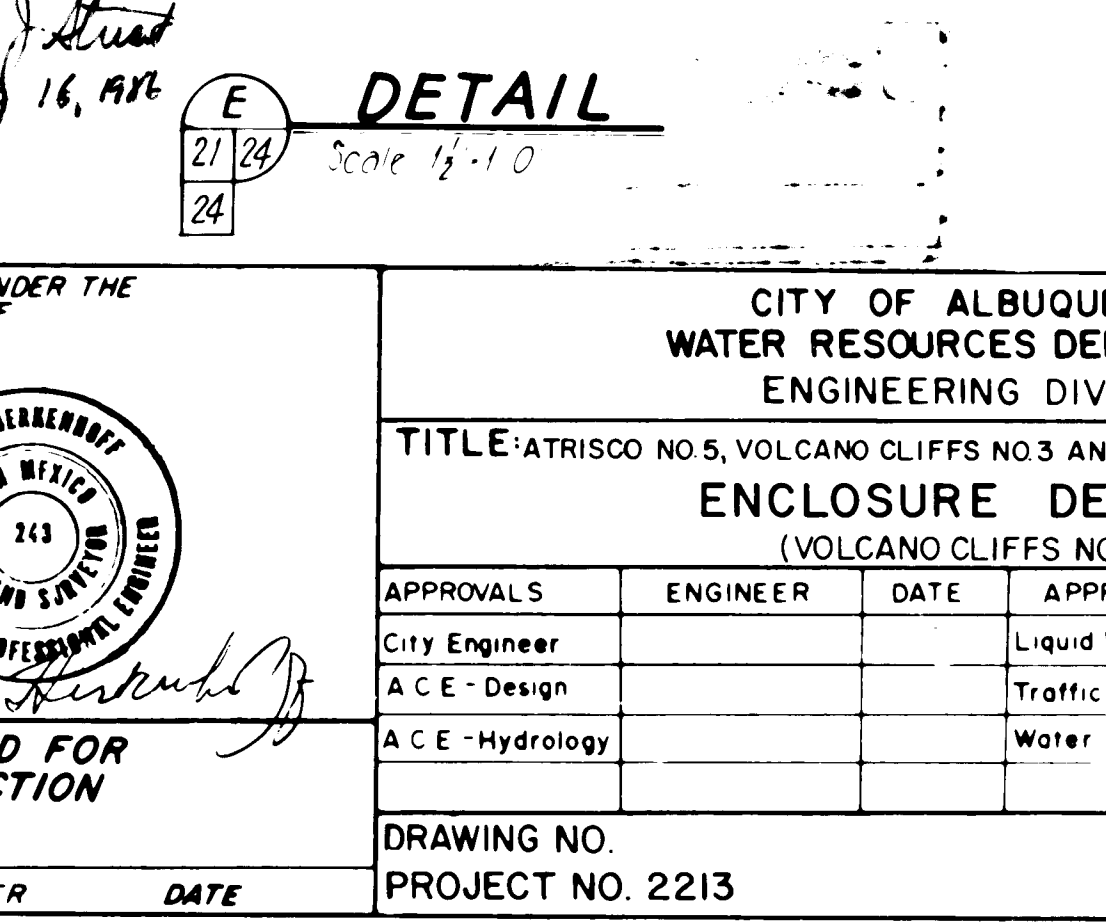
DETAIL H

Scale: 1/2"=1'-0"



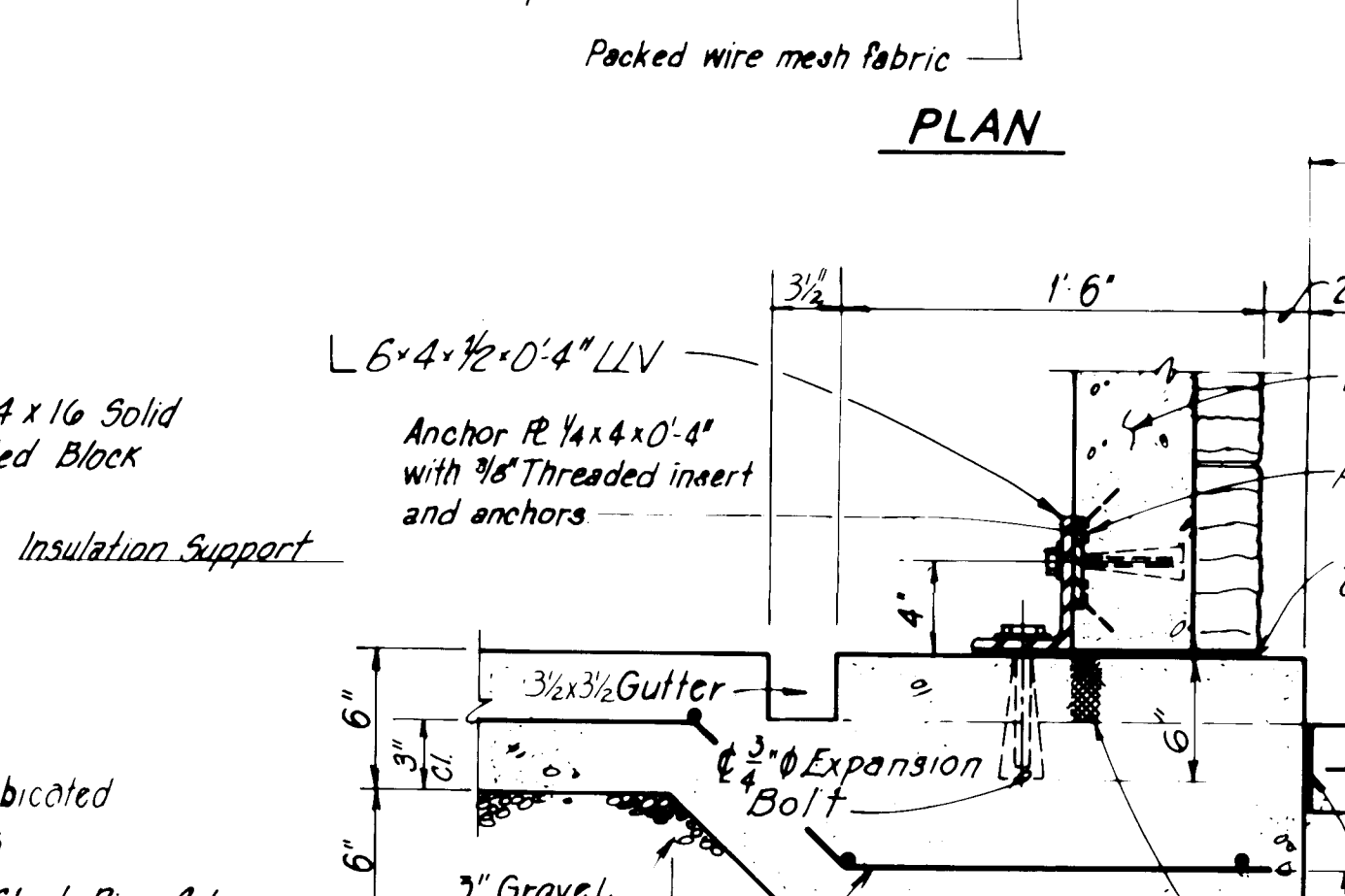
DETAIL I

Scale: 1/2"=1'-0"



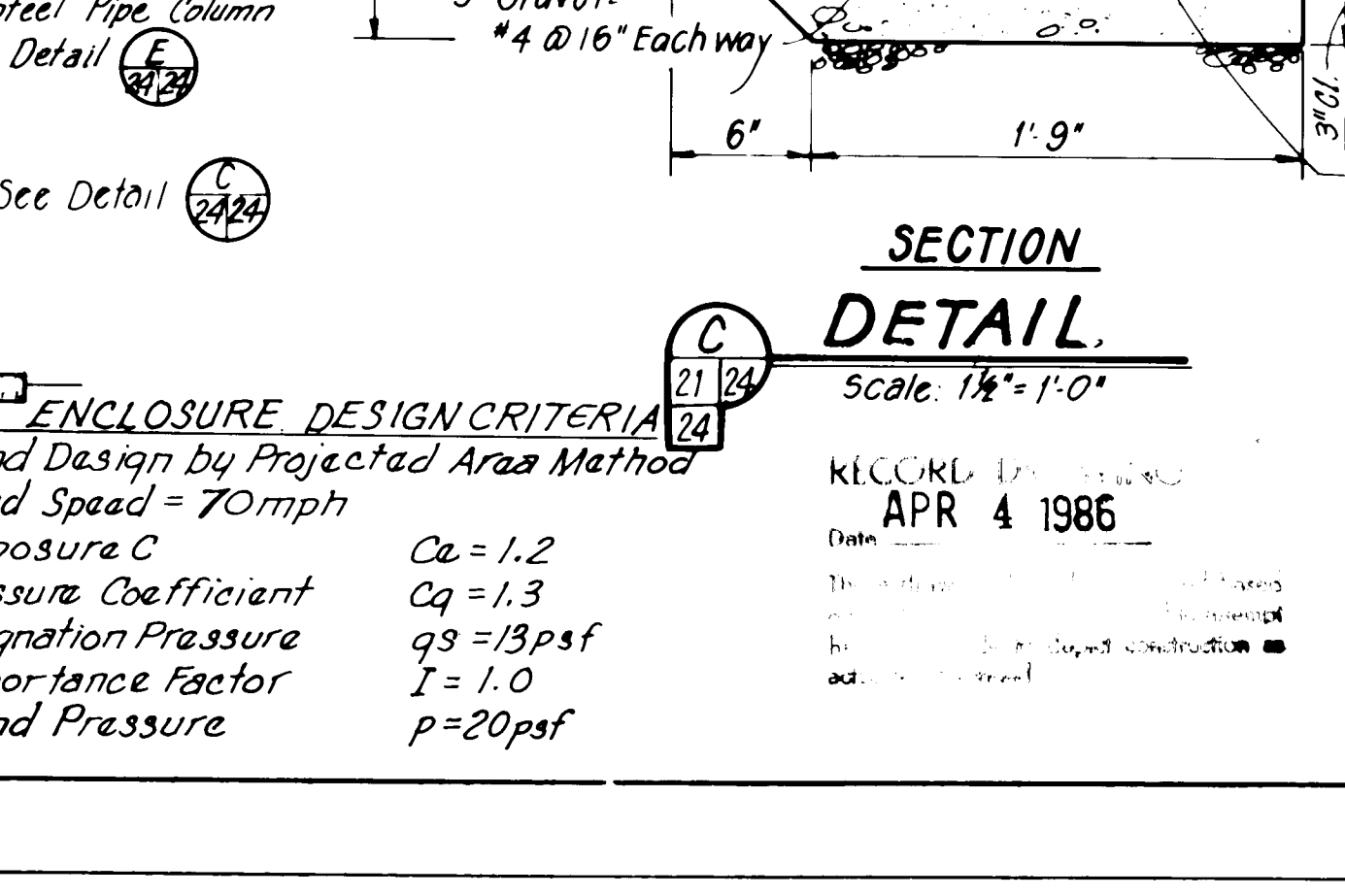
DETAIL J

Scale: 1/2"=1'-0"



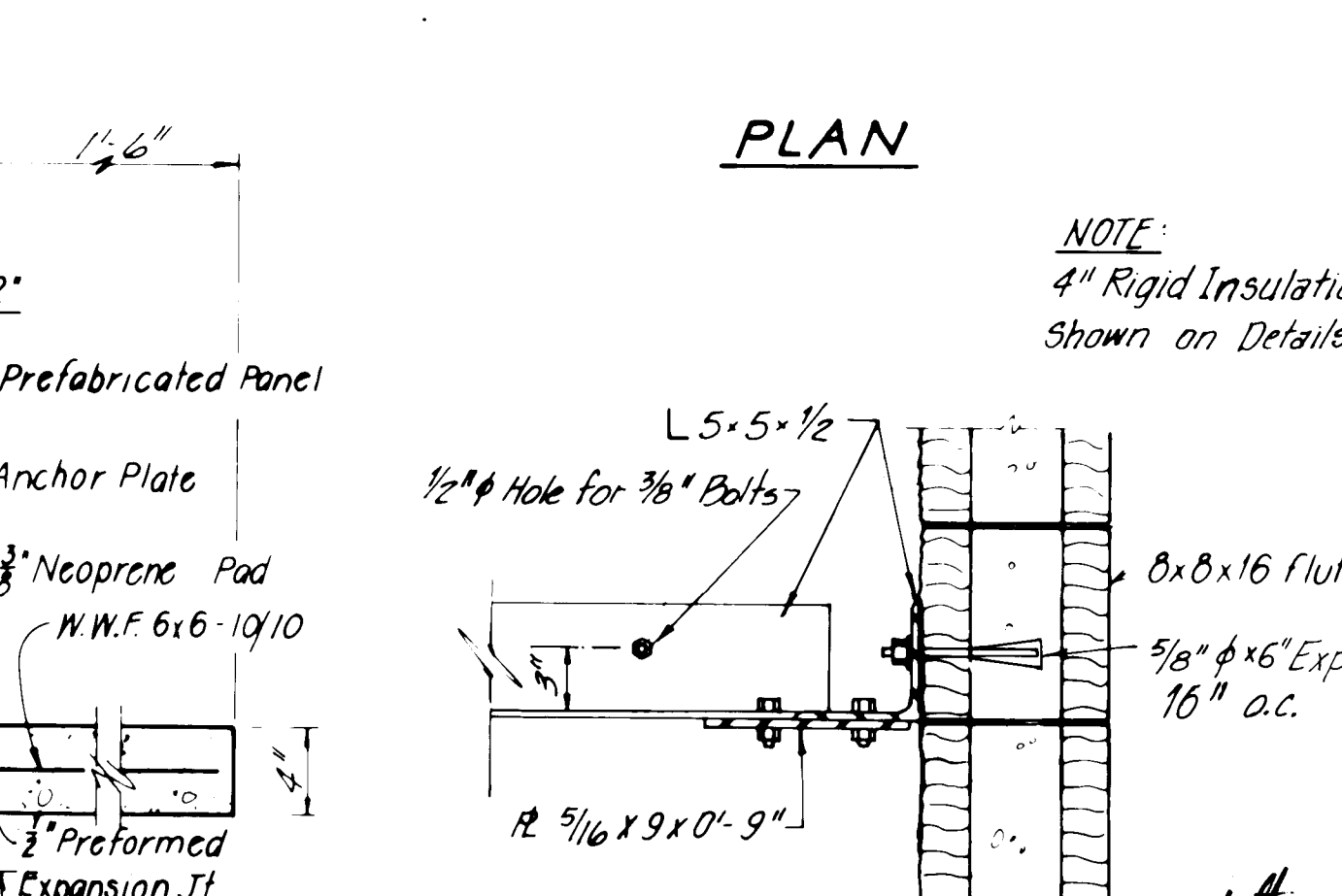
DETAIL K

Scale: 1/2"=1'-0"



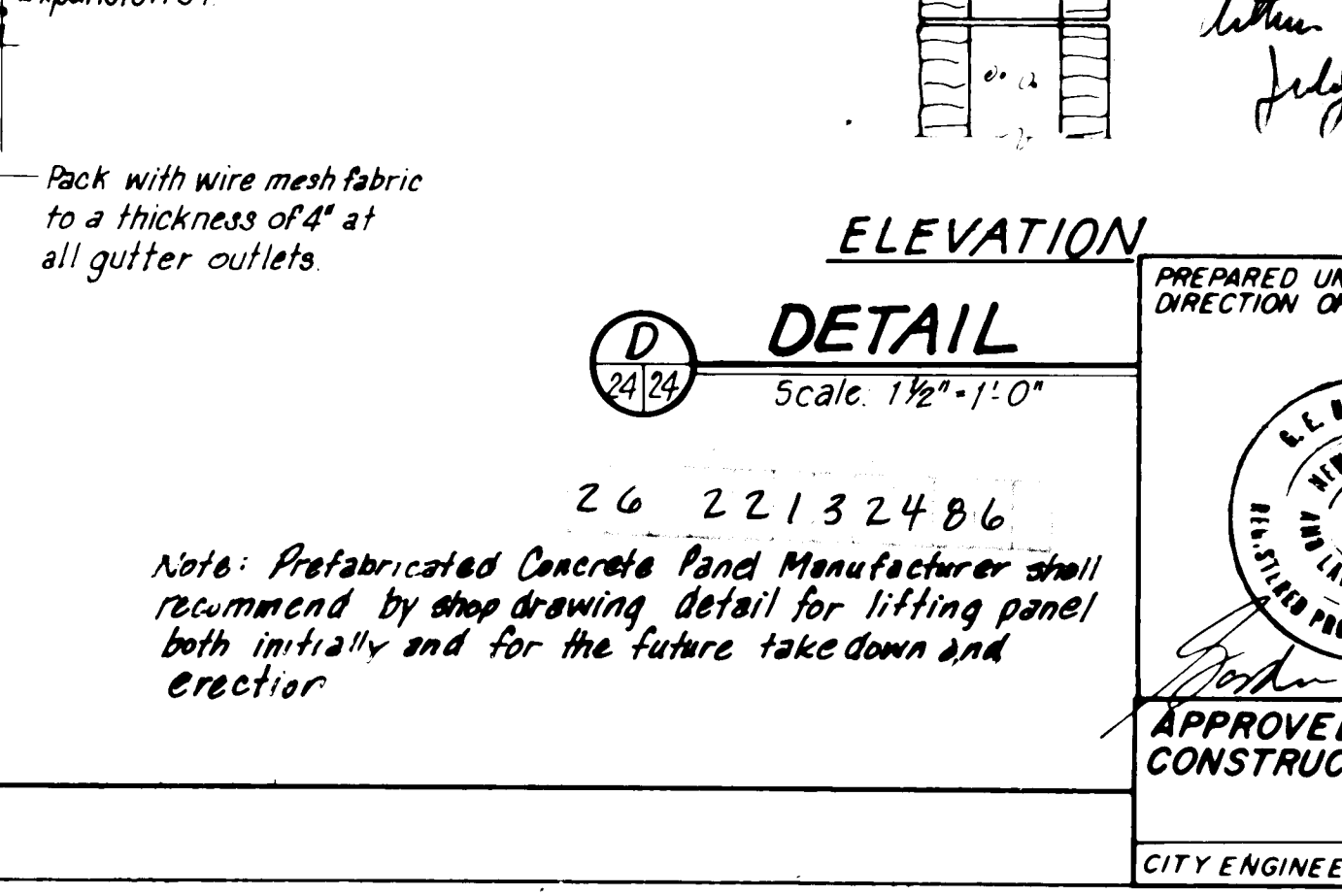
DETAIL L

Scale: 1/2"=1'-0"



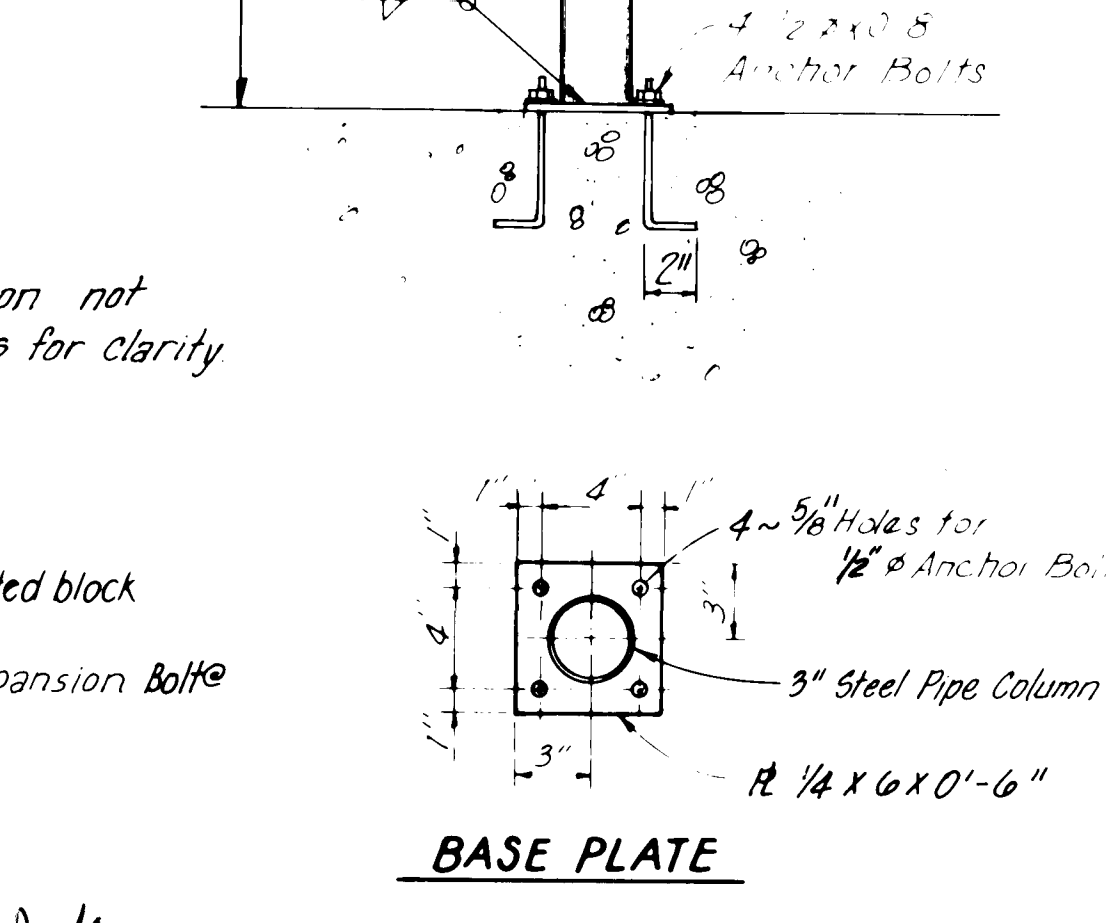
DETAIL M

Scale: 1/2"=1'-0"



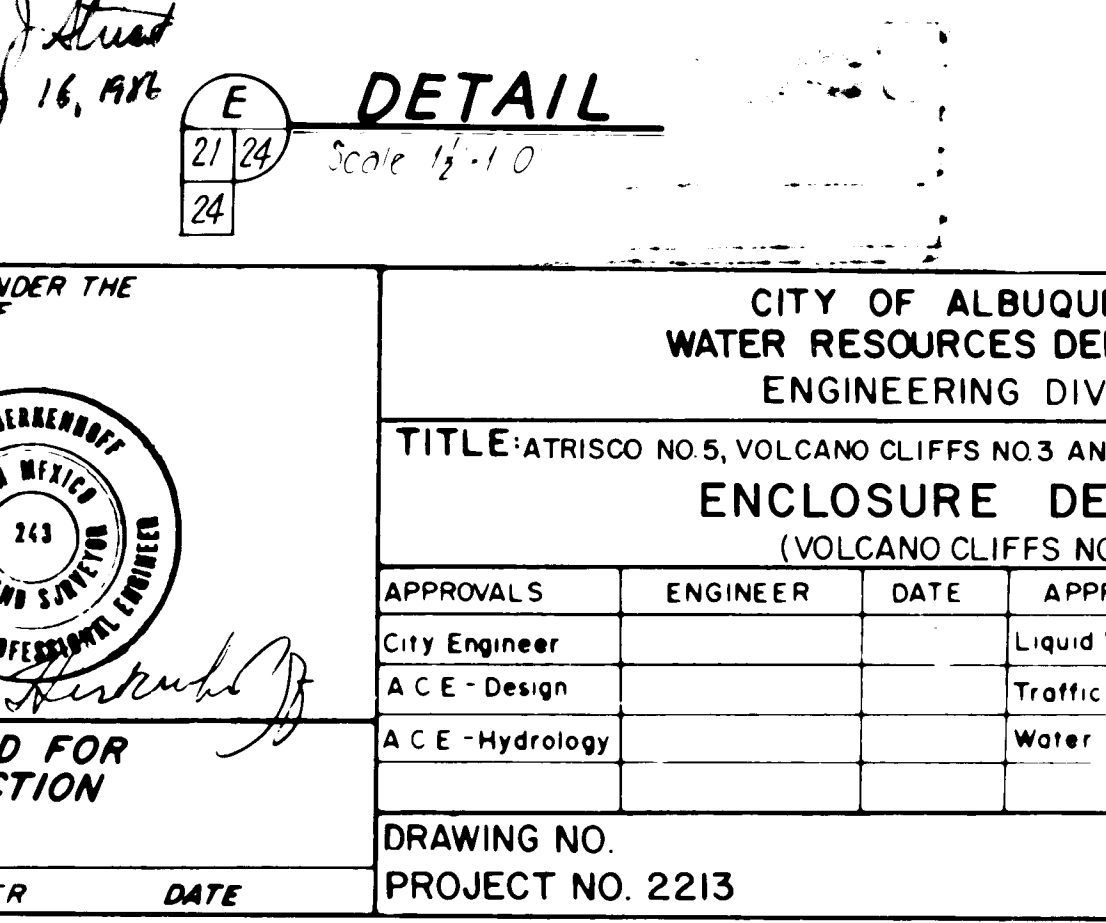
DETAIL N

Scale: 1/2"=1'-0"



DETAIL O

Scale: 1/2"=1'-0"



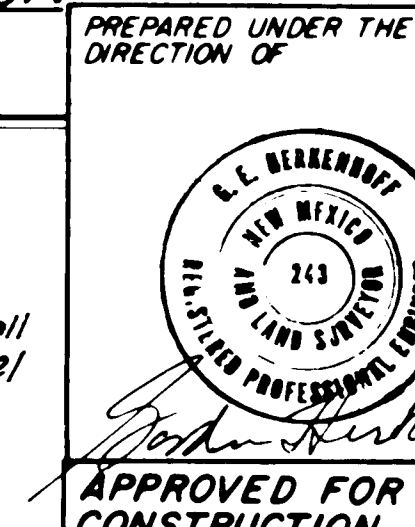
DETAIL P

Scale: 1/2"=1'-0"

ENCLOSURE DESIGN CRITERIA
Wind Design by Projected Area Method
Wind Speed = 70 mph
Exposure C
Pressure Coefficient
Stagnation Pressure
Importance Factor
Wind Pressure
C_e = 1.2
C_q = 1.3
q_s = 13 psf
I = 1.0
p = 20 psf

RECORD
APR 4 1986

Note: Prefabricated Concrete Panel Manufacturer shall recommend by shop drawing detail for lifting panel both initially and for the future take down and erection



APPROVED FOR CONSTRUCTION

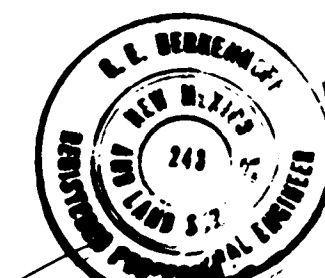
CITY ENGINEER DATE

CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT ENGINEERING DIVISION			
TITLE: ATRISCO NO. 5, VOLCANO CLIFFS NO. 3 AND WALKER NO. 1 WELL EQUIPMENT ENCLOSURE DETAILS (VOLCANO CLIFFS NO. 3)			
APPROVALS	ENGINEER	DATE	APPROVALS
City Engineer			Liquid Waste
A C E - Design			Traffic
A C E - Hydrology			Water
DRAWING NO.		SHEET	
PROJECT NO. 2213		24 OF 47	



Volcano Cliffs #3
WASH LINE
Inv. El. = 5337.93
Connect to
Existing 10" Line

Date. APR 4 1986 26 22132586



**APPROVED FOR
CONSTRUCTION**

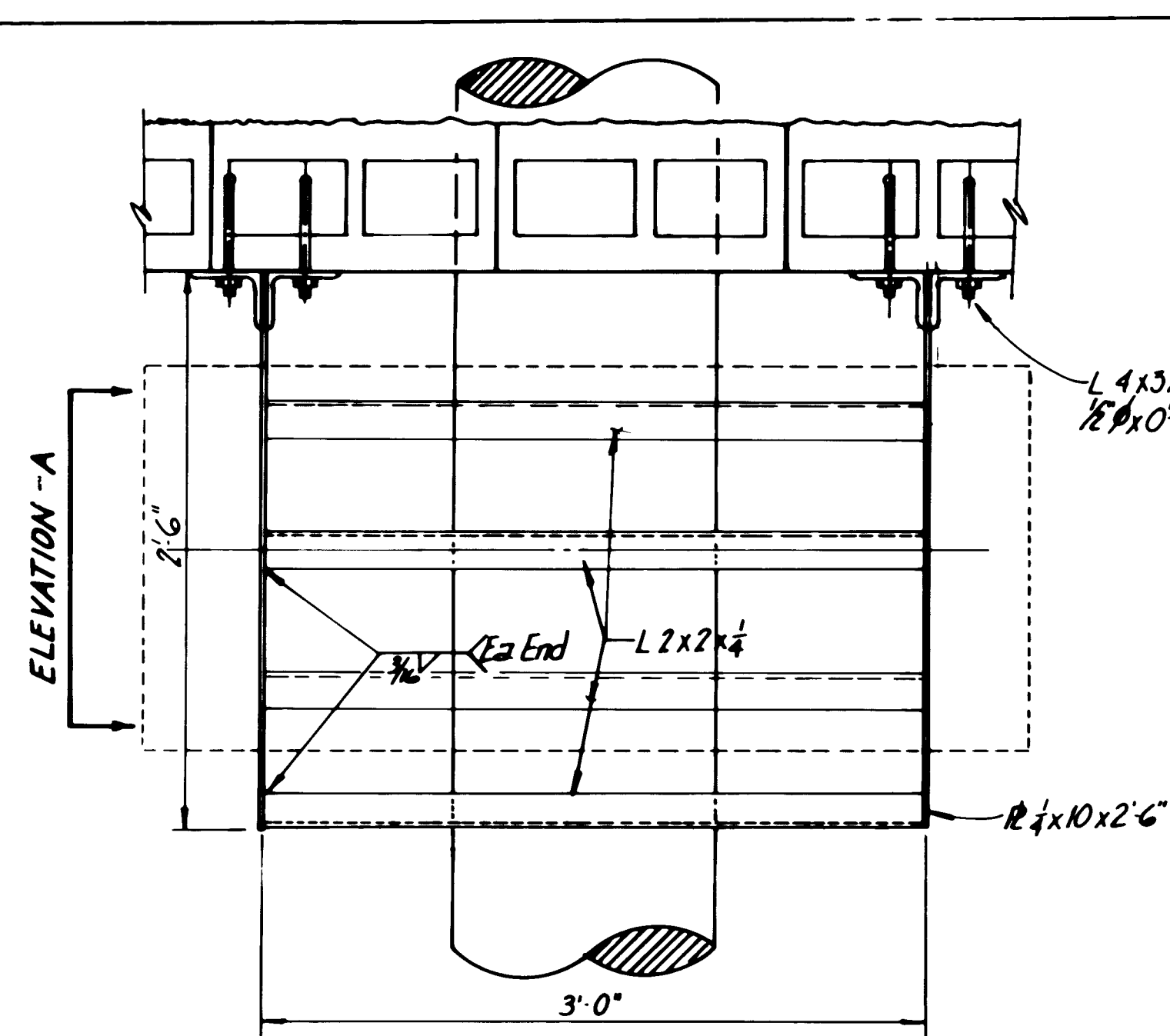
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E - Hydrology			Water		

DRAWING NO.	SHEET	OF
PROJECT NO. 2213	25	47

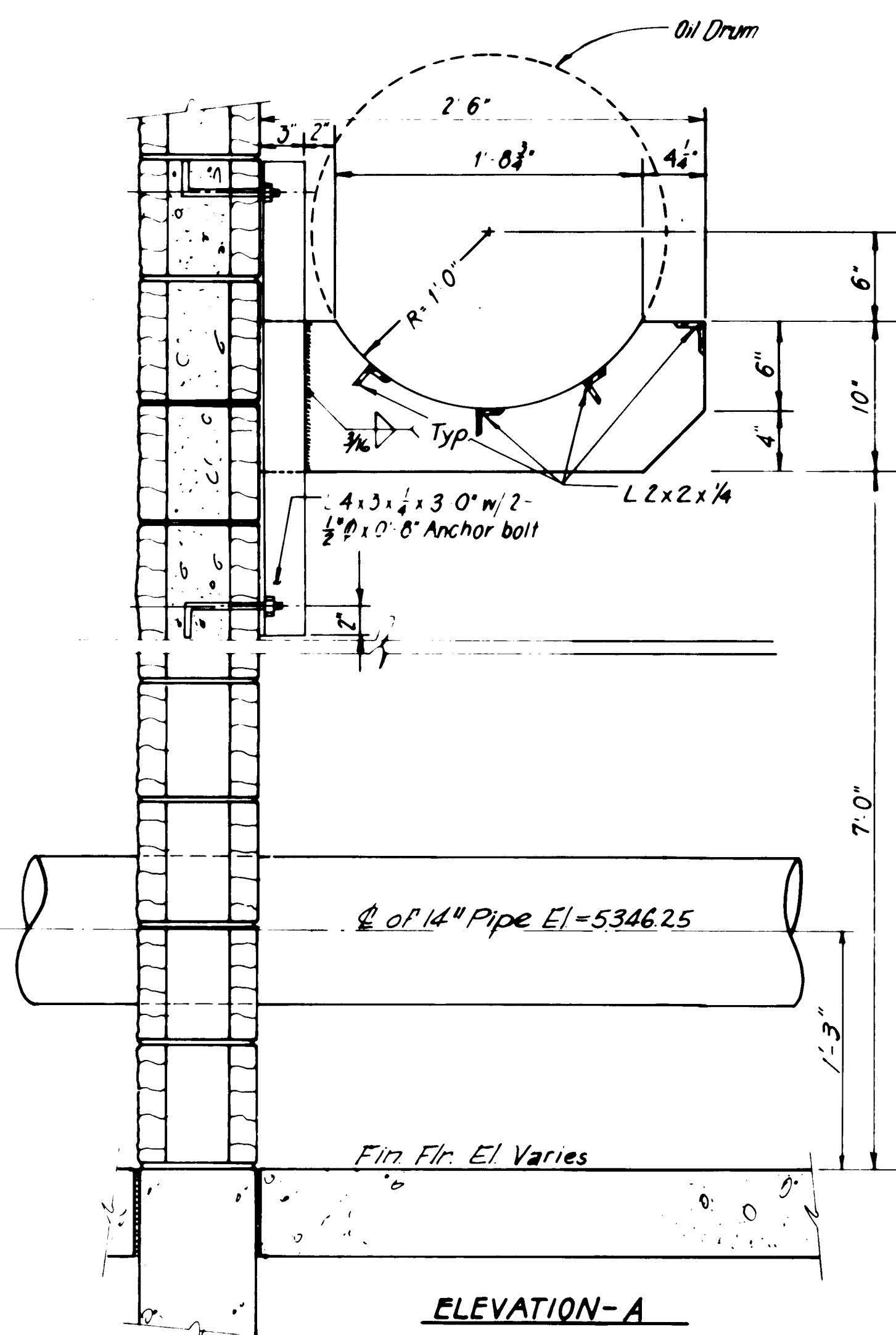
AS BUILT	INFORMATION	DATE
CONT'G THE BILL STOCKMAN CONST. CO. WORK LEEDSHILL - HERKENHOFF INC. INST. BY DATE 3/86 ARCHITECTS: C. BARTOW - LH ACCEPTANCE BY DATE 3/86 VERIFICATION BY DATE 3/86 DRAWINGS CORRECTED BY J. BUTTS - LH DATE 3/86 MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO		

[illegible][illegible][illegible]

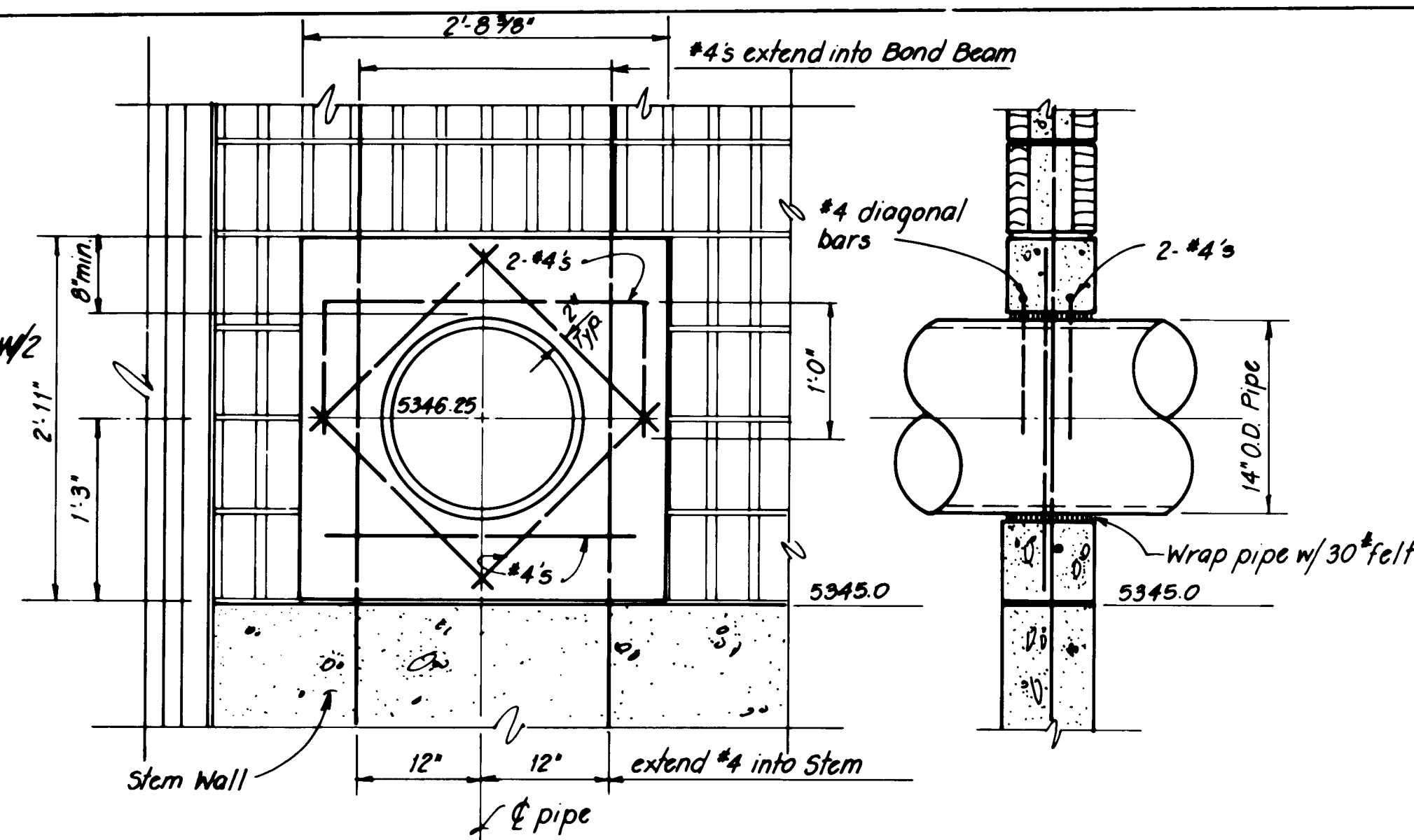
NO.		DATE	REMARKS	BY
REVISIONS				
DESIGN				
DESIGNED BY		WM	DATE	
DRAWN BY		TE W	DATE	DEC 80
CHECKED BY			DATE	



PLAN



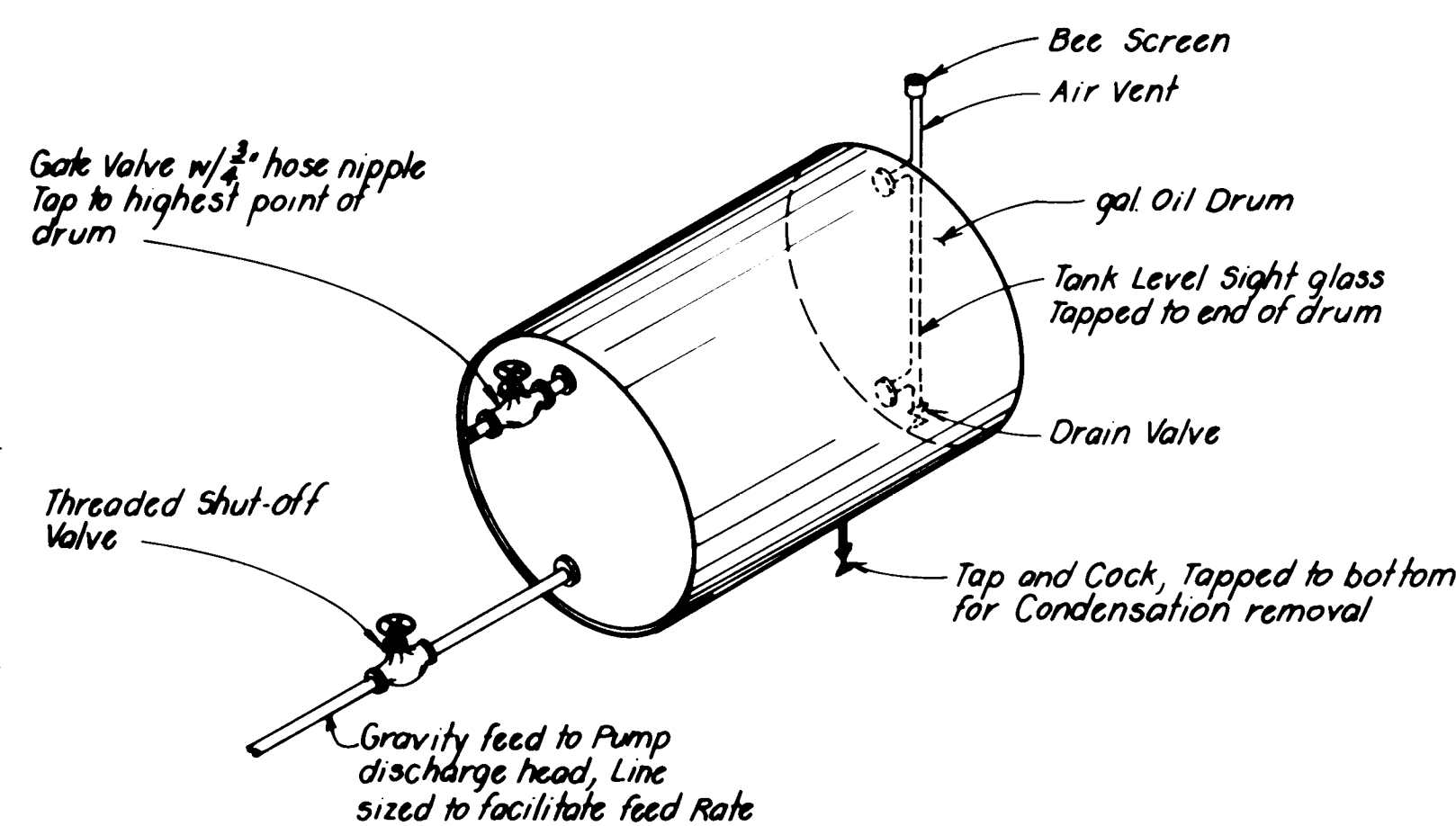
2 OIL DRUM SUPPORT DETAILS
Scale 1/2" = 1'-0"



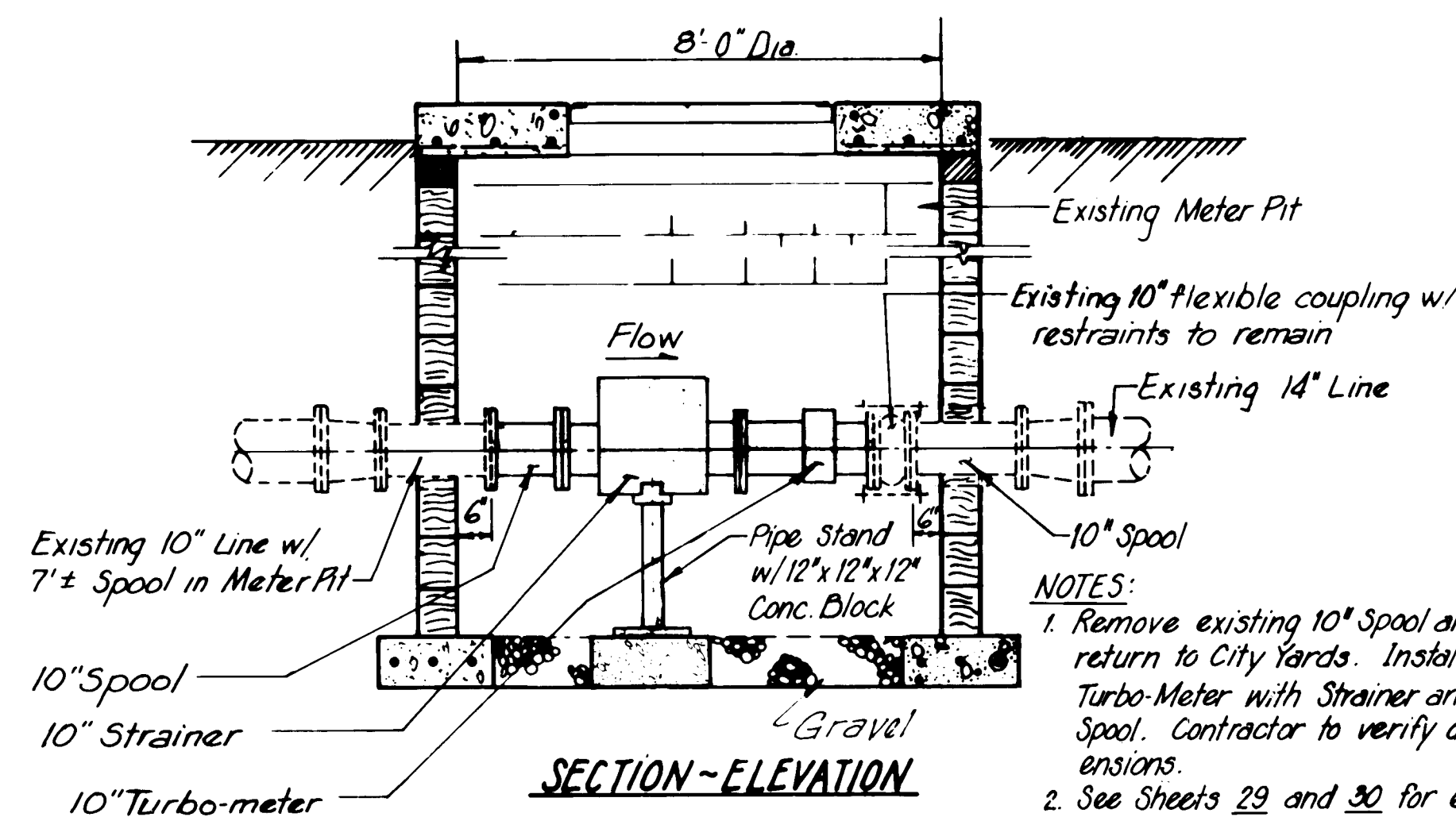
ELEVATION

SECTION

1 PIPE WALL OPENING DETAILS
Scale 1/2" = 1'-0"

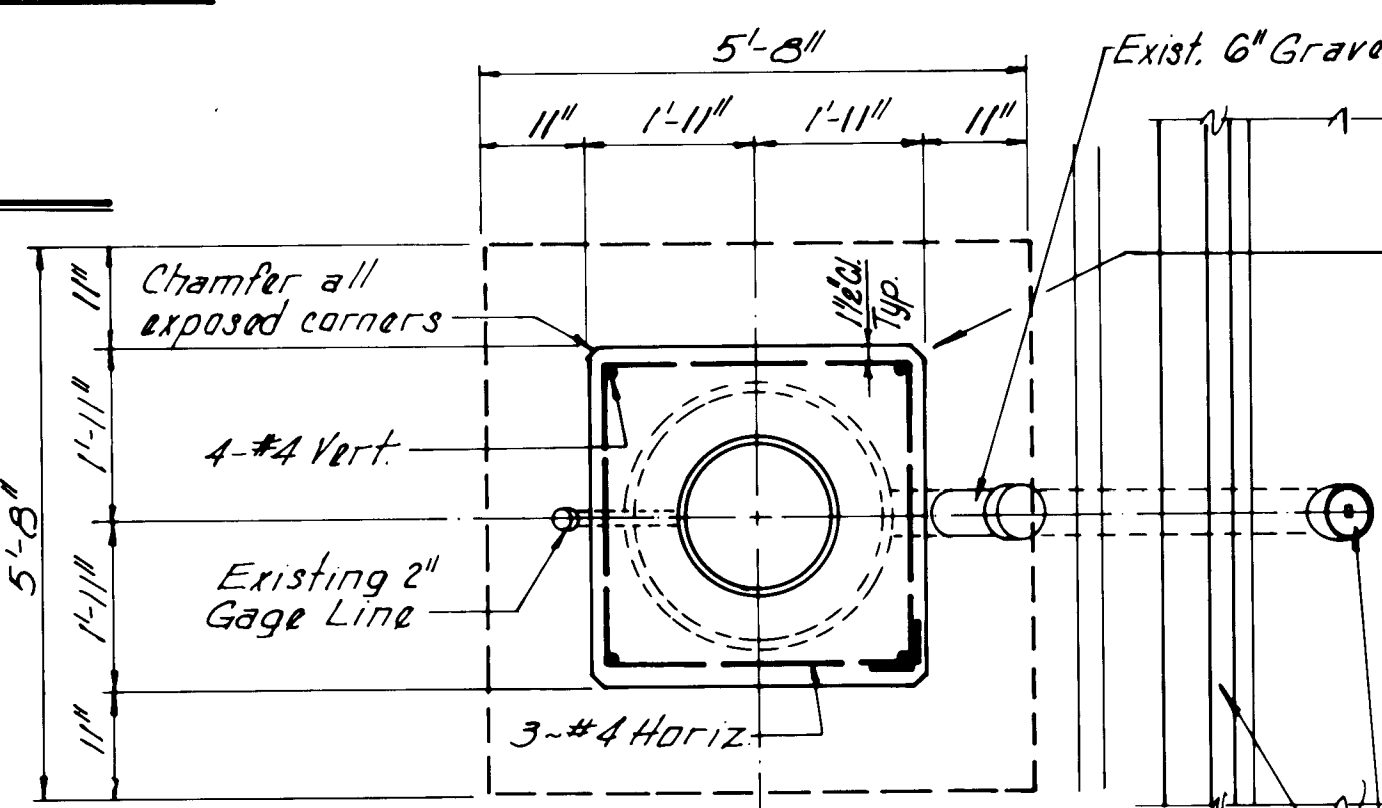


3 OIL DRUM DETAIL
Not to Scale



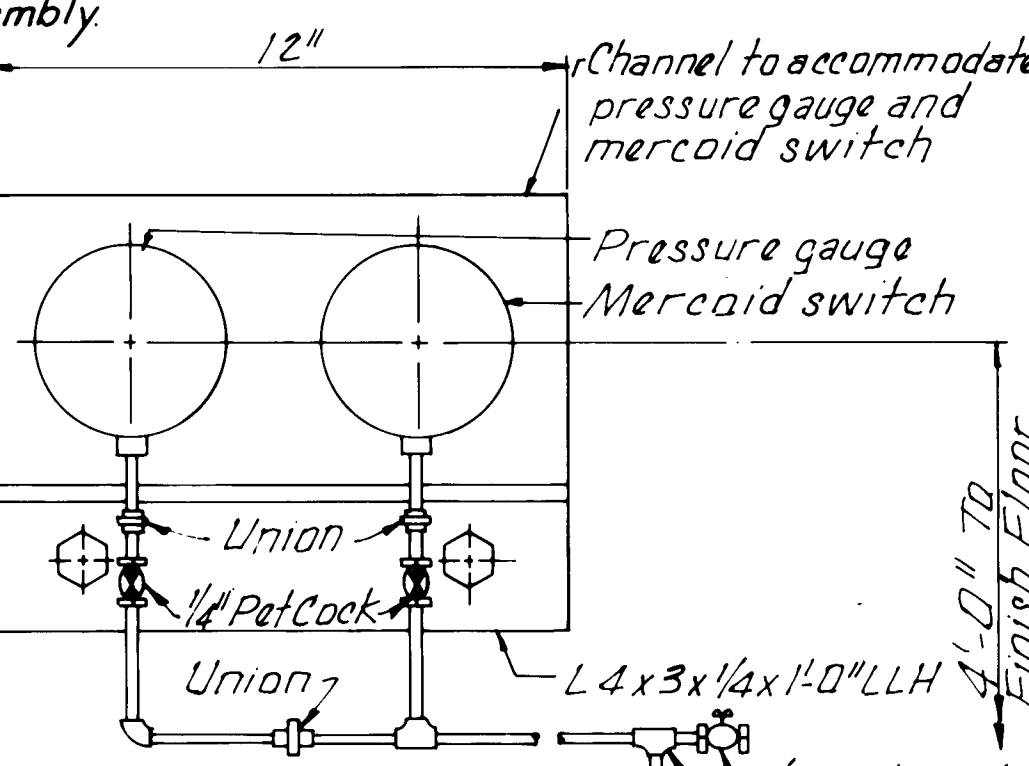
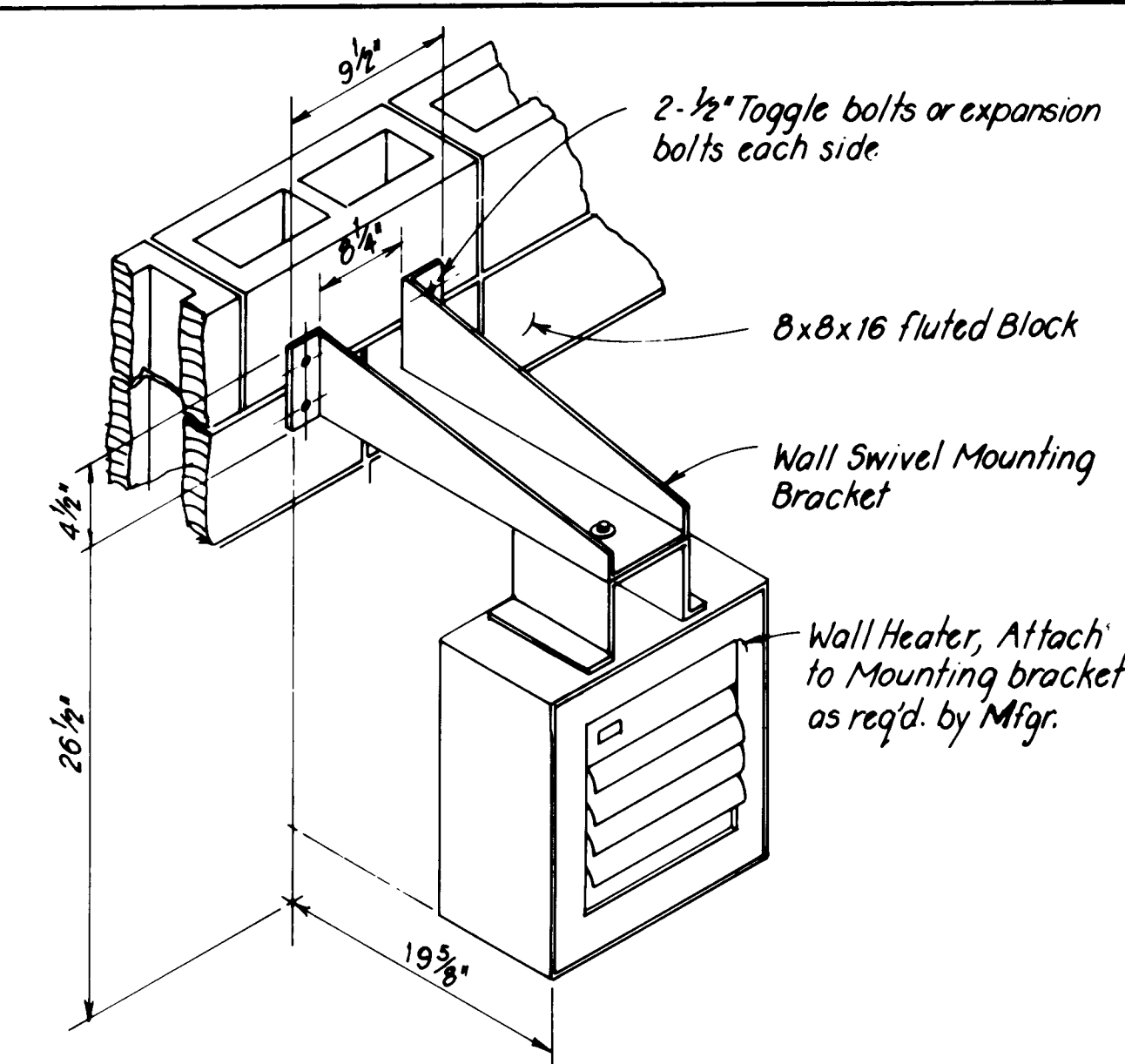
4 METER PIT DETAILS
Not to Scale

- NOTES:
1. Remove existing 10" Spool and return to City Yards. Install 10" Turbo-Meter with Strainer and 10" Spool. Contractor to verify dimensions.
 2. See Sheets 29 and 30 for electrical requirements.

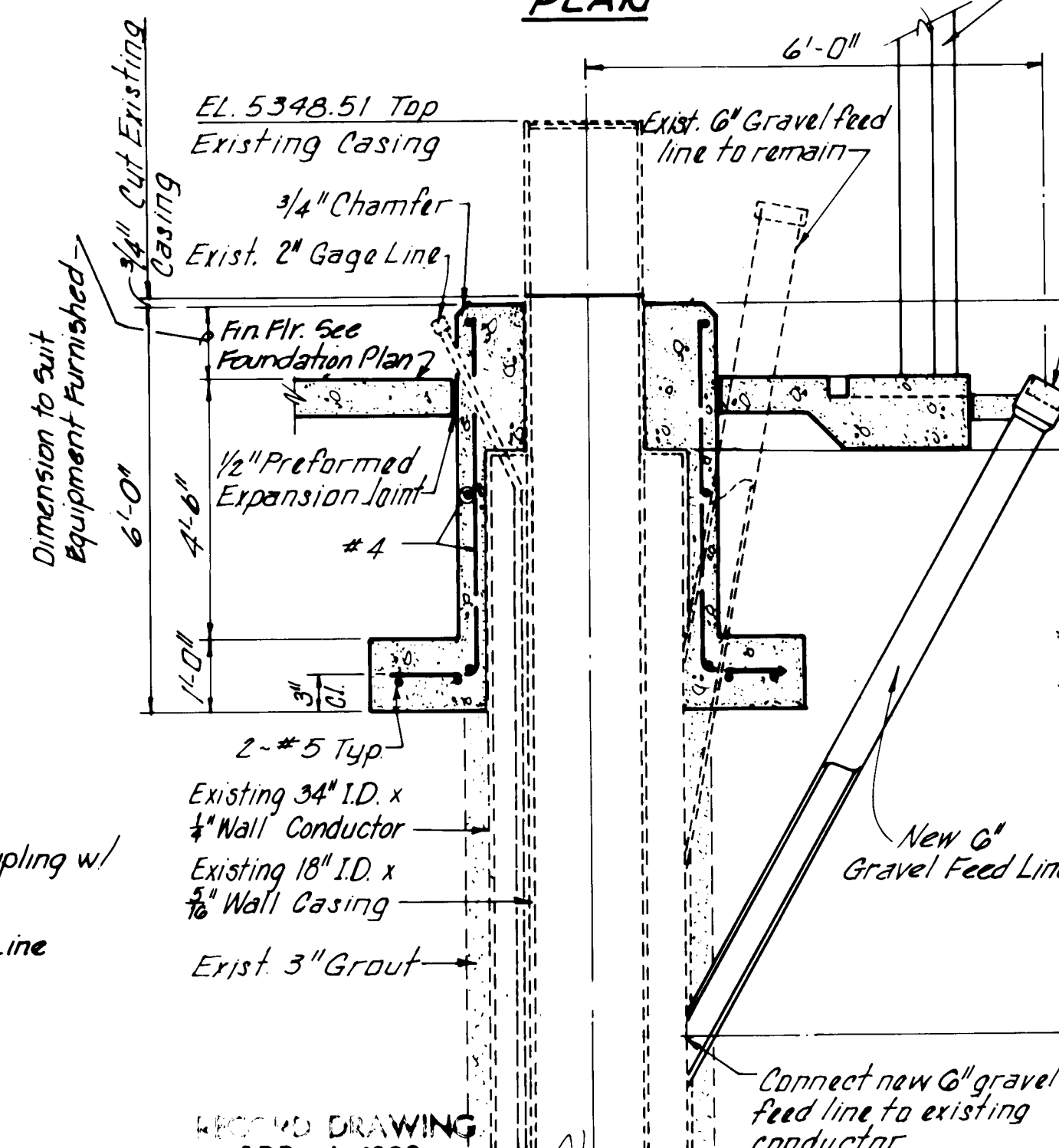


PLAN

5 WALL HEATER DETAIL
Scale: None

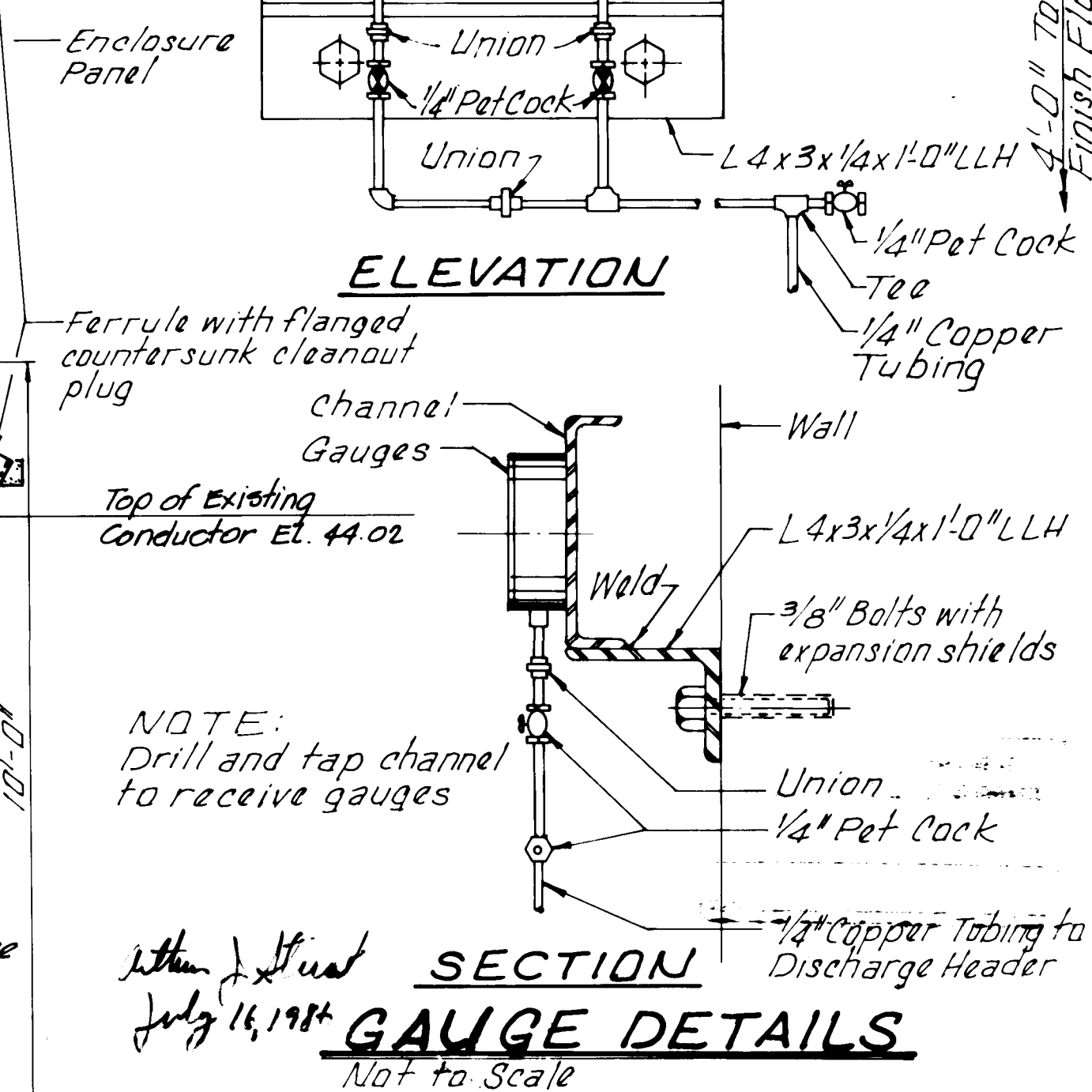


ELEVATION



SECTION

6 PUMP FOUNDATION DETAILS
Scale: 1/2" = 1'-0"



SECTION
GAUGE DETAILS
Not to Scale

APPROVALS				APPROVALS			
ENGINEER		DATE		ENGINEER		DATE	
City Engineer				Liquid Waste			
A C E - Design				Traffic			
A C E - Hydrology				Water			

REVISIONS				REVISIONS			
NO.		DATE		NO.		DATE	

REFERENCES				REFERENCES			
MAP NO.		EST. NO.		W.O. NO.		DATE	

BENCH MARKS				BENCH MARKS			
CONTRACTOR		STOCKMAN		CONTRACTOR		STOCKMAN	

AS BUILT INFORMATION				AS BUILT INFORMATION			
CONTRACTOR		STOCKMAN		CONTRACTOR		STOCKMAN	

MICRO-FILM INFORMATION				MICRO-FILM INFORMATION			
CONTRACTOR		STOCKMAN		CONTRACTOR		STOCKMAN	

DESIGNED BY				DESIGNED BY			
W.W.		DATE		W.W.		DATE	

DRAWN BY				DRAWN BY			
D.C.		DATE		D.C.		DATE	

CHECKED BY				CHECKED BY			

CITY OF ALBUQUERQUE				CITY OF ALBUQUERQUE			
WATER RESOURCES DEPARTMENT		ENGINEERING DIVISION		WATER RESOURCES DEPARTMENT		ENGINEERING DIVISION	

TITLE: ATRISCO NO.5, VOLCANO CLIFFS NO.3 AND WALKER NO.1 WELL EQUIPMENT				TITLE: ATRISCO NO.5, VOLCANO CLIFFS NO.3 AND WALKER NO.1 WELL EQUIPMENT			

MISCELLANEOUS DETAILS				MISCELLANEOUS DETAILS			

DRAWING NO.				DRAWING NO.			
PROJECT NO. 2213				PROJECT NO. 2213			

SHEET				SHEET			
26				26			

DATE				DATE			

CITY ENGINEER				CITY ENGINEER			



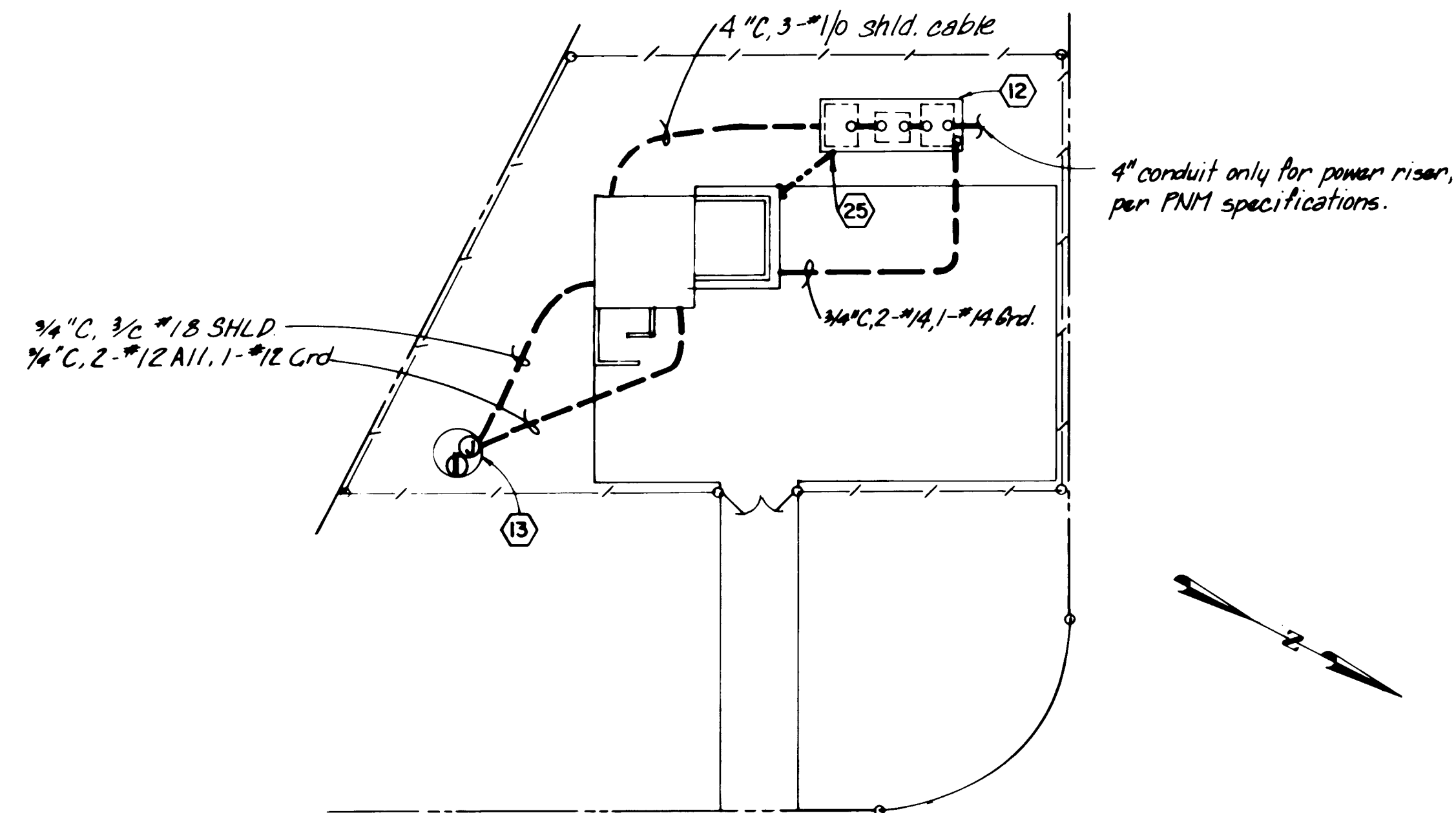
A circular professional seal for James O. Coupland, a Registered Professional Engineer in the State of New Mexico. The seal features the text "JAMES O. COUPLAND" around the top inner edge, "NEW MEXICO" in the center, and "4128" below it. The outer ring of the seal contains the text "REGISTERED PROFESSIONAL ENGINEER" around the bottom.

Arthur J. Street
July 16, 1986

26 22132786

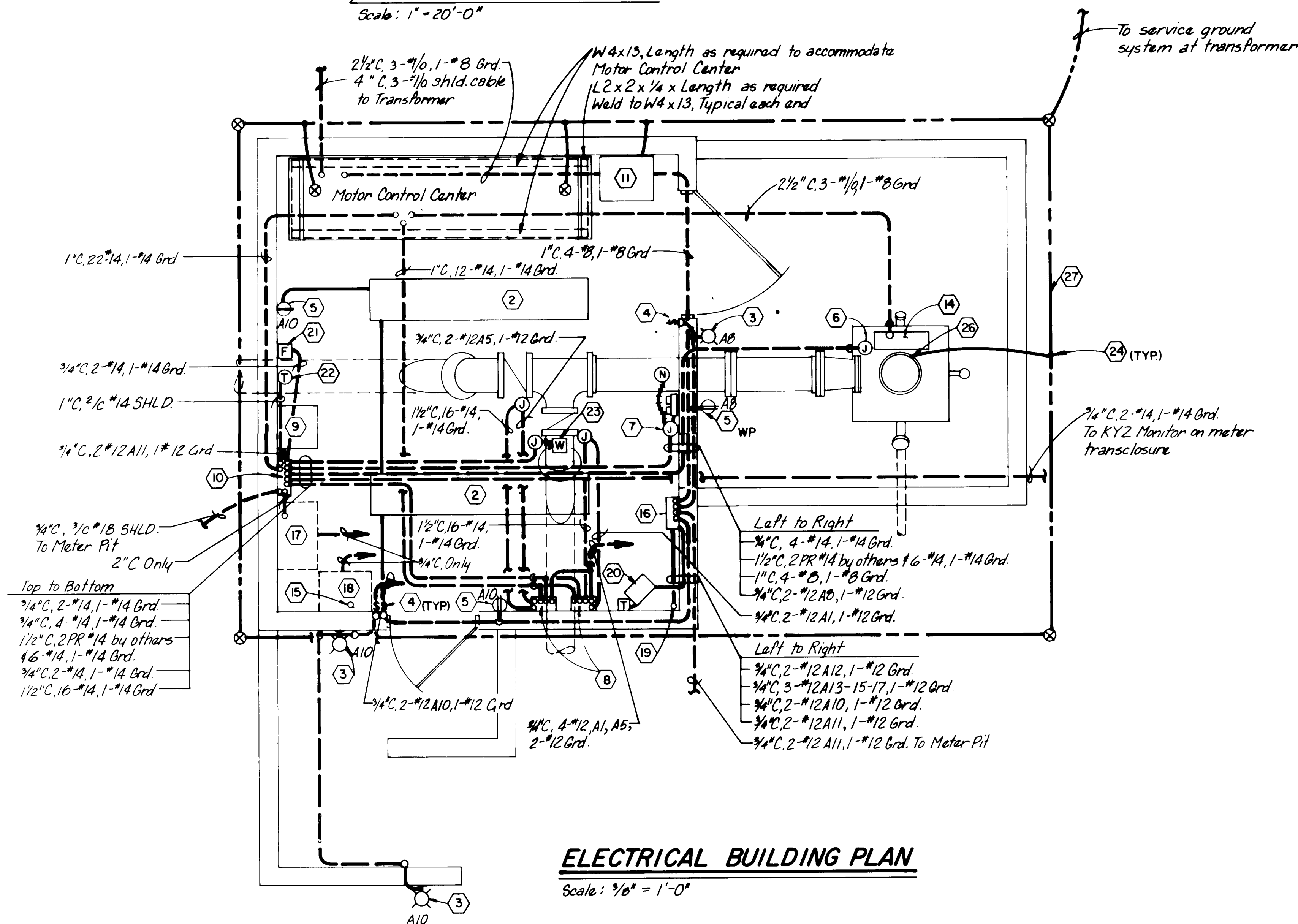
RECEIVED DRAWING
APR 4 1986
Date

These drawings have been revised based on field data and every reasonable effort has been made to depict construction as actually performed.



ELECTRICAL SITE PLAN

Scale: 1" = 20'-0"



ELECTRICAL BUILDING PLAN

Scale: $\frac{3}{8}'' = 1'-0''$

LEGEND

- | | |
|--------|----------------------------------|
| ————— | Conduit (above ground) |
| ————— | Conduit (underground) |
| —————○ | Conduit Turning Toward Viewer |
| —————○ | Conduit Turning Away From Viewer |
| ————— | *1/0 AWG Bare Copper Ground Wire |
| ⊗ | 3/4" x 10'-0" Copper Ground Rod. |
| ⊙ | Junction Box |
| Ⓝ | No-Flow Electrode |
| Ⓙ | Thermostat |
| Ⓘ | Ambient Air Temperature Sensor |
| Ⓕ | Flood Detector |
| ⒱ | Wash Line Leak Detector |

NOTES

- (1) All conduit is shown diagrammatically. *Actual conduit routing to be determined by contractor.*
- (2) Ceiling mount industrial fluorescent "Lithonia" *LA296, 120V-Apertured (2) F96 lamps.
- (3) Mount a 100W Appleton OBVW10G Lighting fixture with a 100W white light bulb 7'-0" above floor on wall of well house.
- (4) Install a single pole wall switch 4'-0" above floor.
- (5) Install a duplex receptacle 4'-0" above floor.
- (6) Install WP junction box for control connections to the drawdown transducer, high bearing temperature detector and emergency stop pushbutton. Final connections to be liquid-tight flexible conduit.
- (7) Install WP junction box for control connections to the high discharge pressure switch and the no flow electrode. Final connections to be liquid-tight flexible conduit.
- (8) Motorized valve starter with "Open-Stop-Close" push-buttons, open and close indicating lights and a local-remote switch. May be located on valve operator.
- (9) Instrument Panel with drawdown indicator and well flow totalizer Indicator.
- (10) RTU terminal box with Square D "lay-in" type wireway below. Conduits shall stub-up 24" above floor into wireway. Install one conduit sized for number of conductors between the wireway and terminal box. Install NEMA 4 enclosure with 120 terminals minimum for RTU terminal box. Top of terminal box not to exceed 6'-6" from floor.
- (11) Install 4160 V/120/208V, 15 KVA, floor-mounted (with 2 inch feet minimum) dry type transformer.
- (12) Contractor shall provide concrete for pad, excavation, conduit and backfilling per PNM standards. Pad-mount 12,470V/4160V transformer, 5KV load break switch and meter transducer. See specifications and one-line diagram for details.
- (13) Install GFI receptacle in WP junction box in meter pit. Conduit shall be hard-wired to flow transmitter.
- (14) Pump motor terminal enclosure (NEMA 4) with surge protection. Stub conduit at least 6' above ground. Make final connections with liquid-tight flexible conduit.
- (15) Penetrate roof 6' from wall with conduit sleeve for future radio antenna connection. See detail sheet 4Q.
- (16) Install Power Panel "A" with top of panel not more than 6'-6" above floor.
- (17) Stub and cap conduits from RTU terminal box and Power Panel "A" for future RTU.
- (18) Stub and cap conduit from Power Panel "A" for future radio.
- (19) Extend conduit through roof for evaporative cooler connection. Final connection to cooler to be made with liquid-tight flexible conduit. Penetrate roof 6' from wall with conduit sleeve. See detail sheet 4Q.
- (20) 56 KW, 208V, 3 ϕ wall-mounted heater. See mechanical sheet 27.
- (21) Install flood detector 1/2" above floor.
- (22) Install ambient air temperature sensor on wall 5'-0" above floor.
- (23) Pressure tap underside of wash line elbow and install wash line leak detector.
- (24) All splices or taps in ground counterpoise system shall be cadwelded. All tap conductors shall be #2 AWG.
- (25) See one-line diagram sheet 29 for service ground system.
- (26) Ground well casing to equipment ground system.
- (27) Ground counterpoise system shall be buried 3'-0" deep minimum.

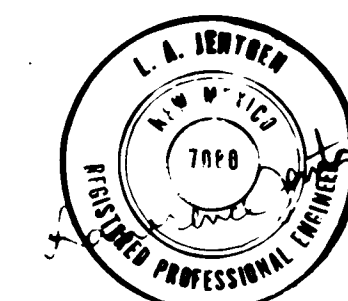
Arthur J. Stuart
July 16, 1986

26 22132886

RECORD DRAWING
APR 4 1986

Date: 11-1-1960

These drawings have been revised based on field data and a reasonable attempt has been made to depict construction as actually performed.



APPROVED FOR
CONSTRUCTION

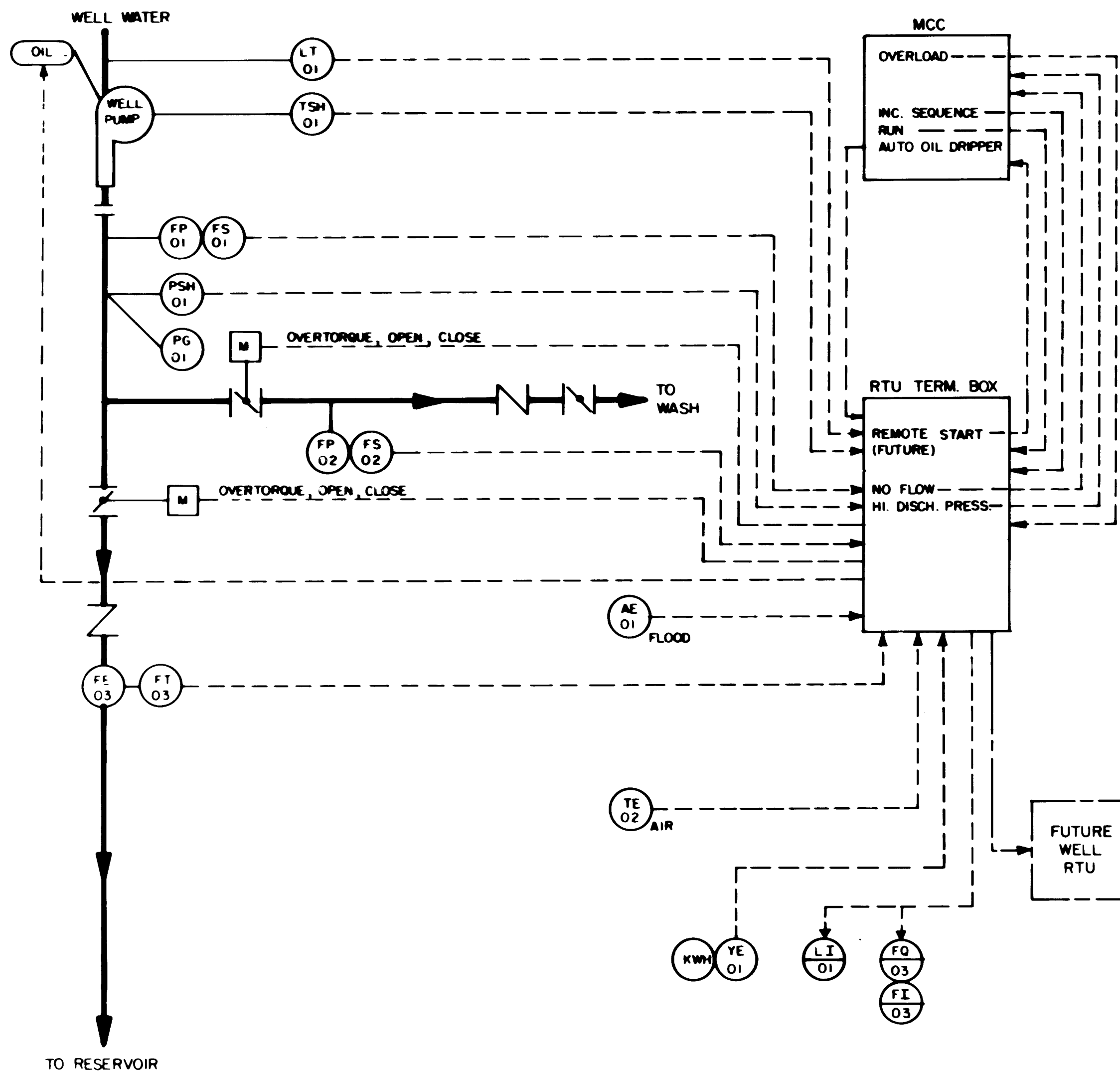
CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

TITLE: ATRISCO NO. 5, VOLCANO CLIFFS NO. 3, AND WALKER NO. 1 WELLS
ELECTRICAL PLANS
(VOLCANO CLIFFS NO. 3)

APPROVALS		ENGINEER	DATE	APPROVALS		ENGINEER	DATE
City Engineer				Liquid Waste			
A C E - Design				Traffic			
A C E - Hydrology				Water			

DRAWING NO.
PROJECT NO. 2213

SHEET 28 OF 47



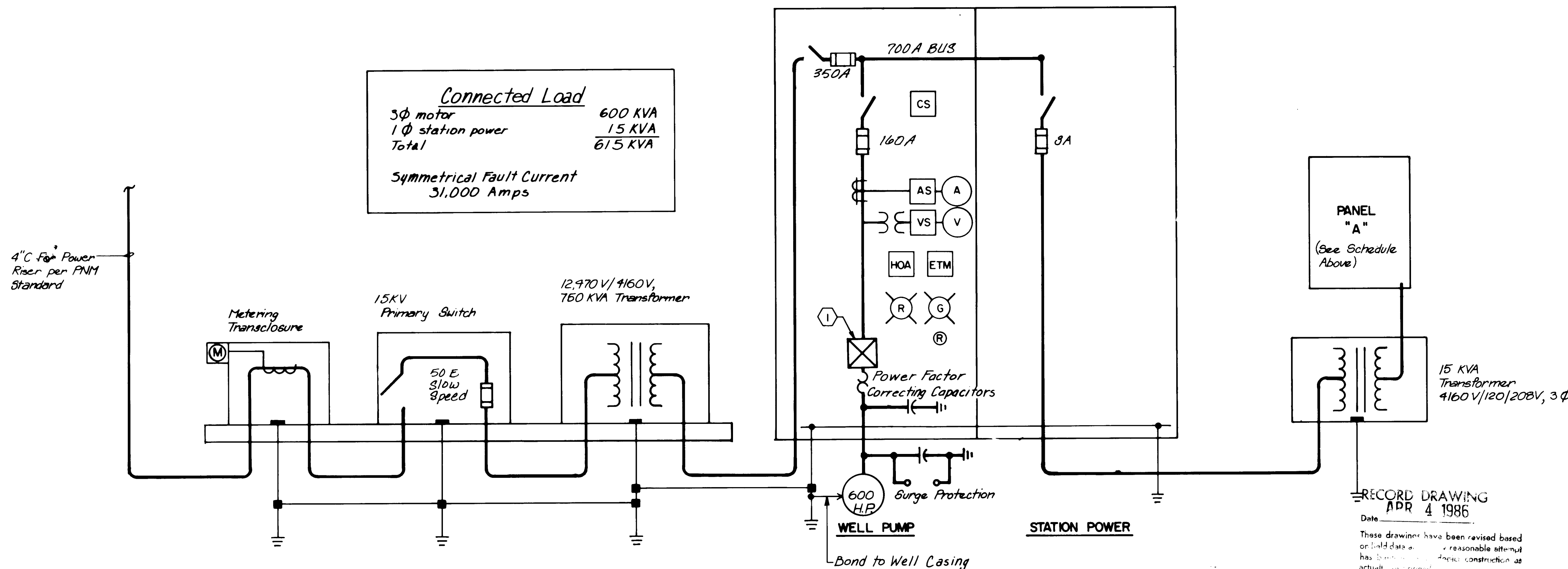
PIPING & INSTRUMENT DIAGRAM

NOT TO SCALE

PANEL 'A'									
3 Ø, 4 WIRE, S/N, 120/208V, 40 A MAIN BREAKER AND 24 CIRCUITS									
CKT.	RTNG.	LOAD DESCRIPTION	LOAD			LOAD DESCRIPTION	RTNG.	CKT.	
			ØA	ØB	ØC				
1	20A	Wash MOV				Spare	20A	2	
3	20A	Spare				Spare	20A	4	
5	20A	Line MOV				Spare	20A	6	
7	20A	Spare (Future Radio)				Pump Enclosure Lighting and Receptacles	20A	8	
9	20A	Spare (Future RTU)				Equipment Room Lighting and Receptacles	20A	10	
11	20A	Well Flowmeter, Drawdown Transducer, Indicator, Well Totalizer/Indicator, Water GPS receptacle				Evaporative Cooler	20A	12	
13						Flood Detector Wash Line Leak Detector	20A	14	
15	20A	Heater				Spare	20A	16	
17						Spare	20A	18	
19		Space				Space		20	
21		Space				Space		22	
23		Space				Space		24	
TOTAL LOAD									

PANEL SCHEDULE

LOADS SHALL BE BALANCED IN THE FIELD



ONE LINE DIAGRAM

NOT TO SCALE

NOTES

GORDON HERKENHOFF & ASSOC. INC.
Albuquerque, New Mexico (505) 247-0294

- Magnetic motor starter shall be three leg autotransformer reduced voltage start tapped at 50% with vacuum contactors.
- All fuse interrupting capability and bus bracing shall be rated for a minimum 51,000 A symmetrical fault current.
- Contractor shall complete Panel Schedule 'A' with actual loads when panel is balanced in the field.

ONE-LINE LEGEND

- (A) Ammeter
- (AS) Phase-Amp Selector Switch
- (ETM) Elapsed Time Meter
- (HOA) Hand-Off-Automatic Switch
- (V) Voltmeter
- (VS) Phase-Volt Selector Switch
- (R) Reset Push Button
- (CS) Control Switch (Breaker Handle)
- Overload

INSTRUMENT LEGEND

- Local Mounted Instrument
- Instrument Panel Mounted Instrument
- AE_{CL} Analyzer Element (Chlorine)
- AE_{FLOOD} Flood Detector
- FE Flow Element
- FI Flow Indicator
- FP Flow Point
- FQ Flow Totalizer
- FS Flow Switch
- FT Flow Transmitter
- LT Level Transmitter
- PG Pressure Gauge
- PSH High Pressure Switch
- TE_{AIR} Ambient Air Temperature Element
- TSH High Bearing Temperature Switch
- YE Pulse Initiator

PIPING LEGEND

- Butterfly Valve
- Check Valve
- Motor Operated Valve
- Process Line
- Instrument Electrical Line

PREPARED UNDER THE DIRECTION OF



APPROVED FOR CONSTRUCTION

CITY ENGINEER

DATE

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

TITLE: ATRISCO NO. 5, VOLCANO CLIFFS NO. 3, AND WALKER NO. 1 WELLS
P & ID, ONE LINE DIAGRAM & PANEL SCHEDULE
(VOLCANO CLIFFS NO. 3)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

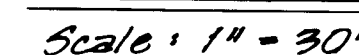
DRAWING NO. PROJECT NO. 2213

SHEET 29 OF 47

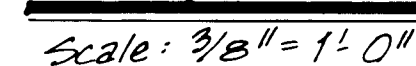
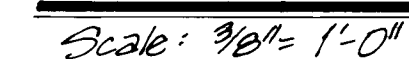
NO.	DATE	REVISIONS	BY
1	JUNE 1984	DESIGN	CL BUSH
2	JUNE 1984	DESIGN	L. SANDOVAL

Author: J. Jernigan
July 16, 1984

PREPARED UNDER THE DIRECTION OF 		CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT ENGINEERING DIVISION	
APPROVED FOR CONSTRUCTION CITY ENGINEER _____ DATE _____		TITLE: ATRISCO NO. 5, VOLCANO CLIFFS NO. 3 AND WALKER NO. 1 WELLS ELECTRICAL SCHEMATICS (VOLCANO CLIFFS NO. 3)	
APPROVALS	ENGINEER	DATE	APPROVALS
City Engineer			Liquid Waste
A C E - Design			Traffic
A C E -Hydrology			Water
DRAWING NO. PROJECT NO. 2213		SHEET _____ OF _____ 30 47	



Scale: $\frac{3}{8}'' = 1'-0''$



Arthur J. Stuart
July 16, 1986

Arthur J. Stuart
July 16, 1986

26 22133186

RECORD DRAWING
Date APR 4 1986

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

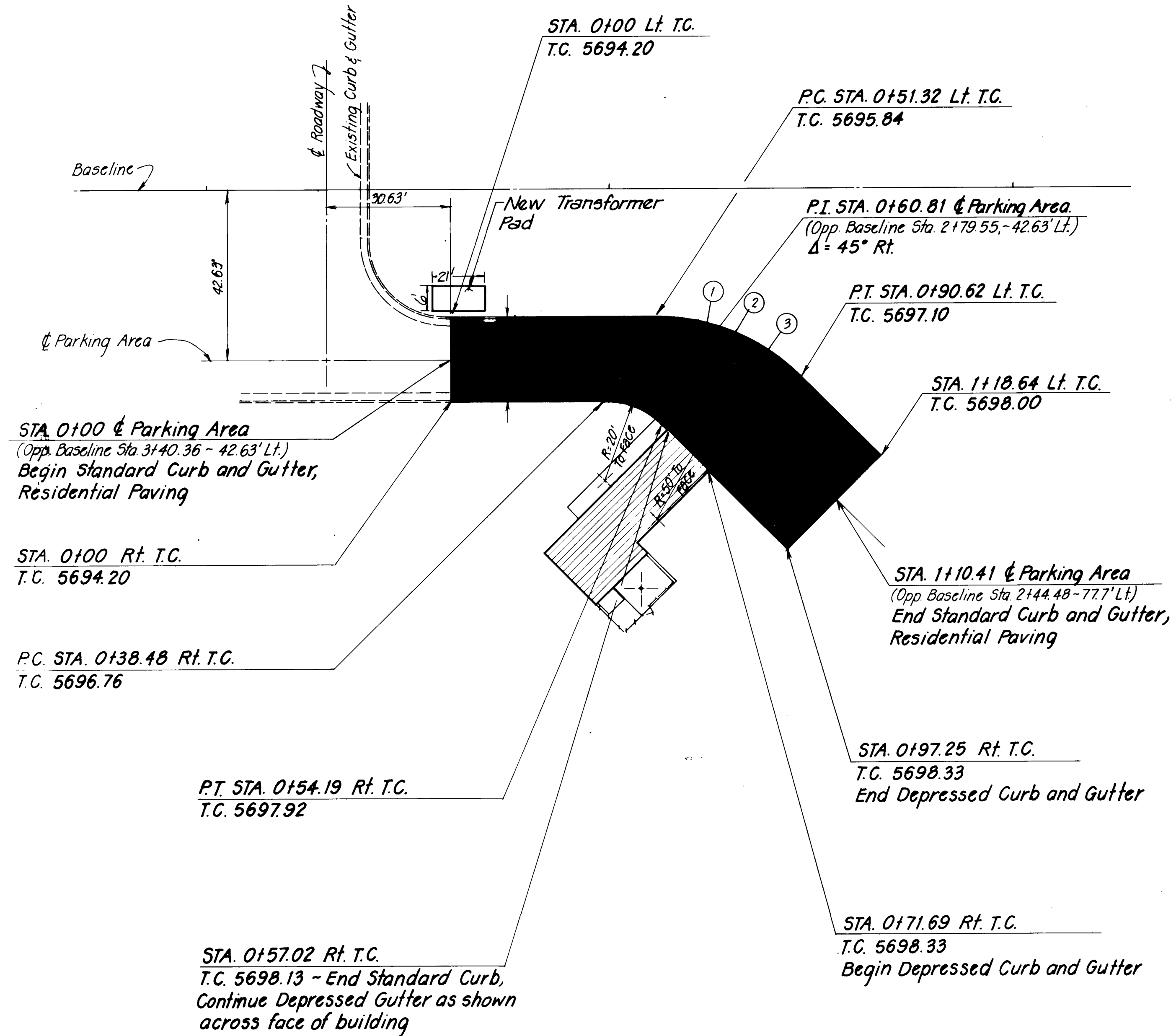
CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

**TITLE: ATRISCO NO. 5, VOLCANO CLIFFS NO. 3 AND WALKER NO. 1 WELL EQUIPMENT
WELL INJECTION BYPASS LINE
VOLCANO CLIFFS RESERVOIR-ZONE 2W & 2WR**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

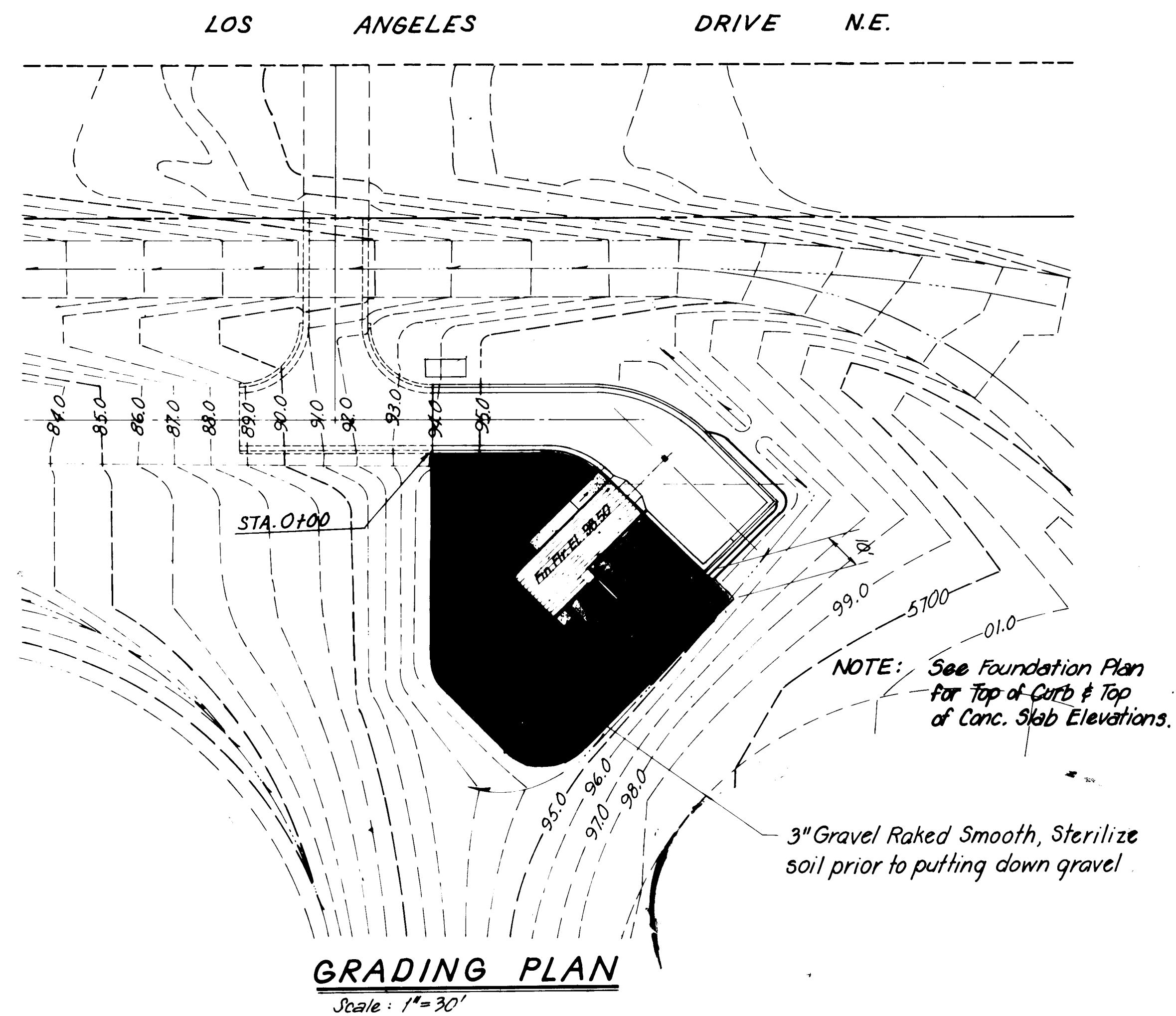
DRAWING NO. PROJECT NO. 2213	MAP NO.	SHEET 31 OF 47
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CURB DATA $\Delta = 45^\circ$		
PT.	Elevation	Station
(1)	5696.16	0+61.14 Lt
(2)	5696.47	0+70.97 Lt
(3)	5696.79	0+80.79 Lt
(4)	5697.05	0+92.41 Rt
(5)	5697.34	0+96.34 Rt
(6)	5697.63	0+100.26 Rt



PARKING AREA PLAN

Scale: 1"=20'



GRADING PLAN

Scale : $1'' = 30'$

NOTE: See Foundation Plan
for Top of Curb & Top
of Conc. Slab Elevations.

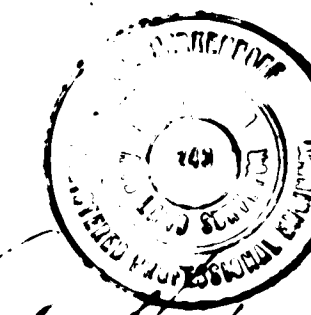
— 3" Gravel Raked Smooth, Sterilize soil prior to putting down gravel.

RECORD DRAWING
APR 4 1986
Date

Date APR 4 1968

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

PREPARED UNDER THE
DIRECTION OF



**APPROVED FOR
CONSTRUCTION**

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

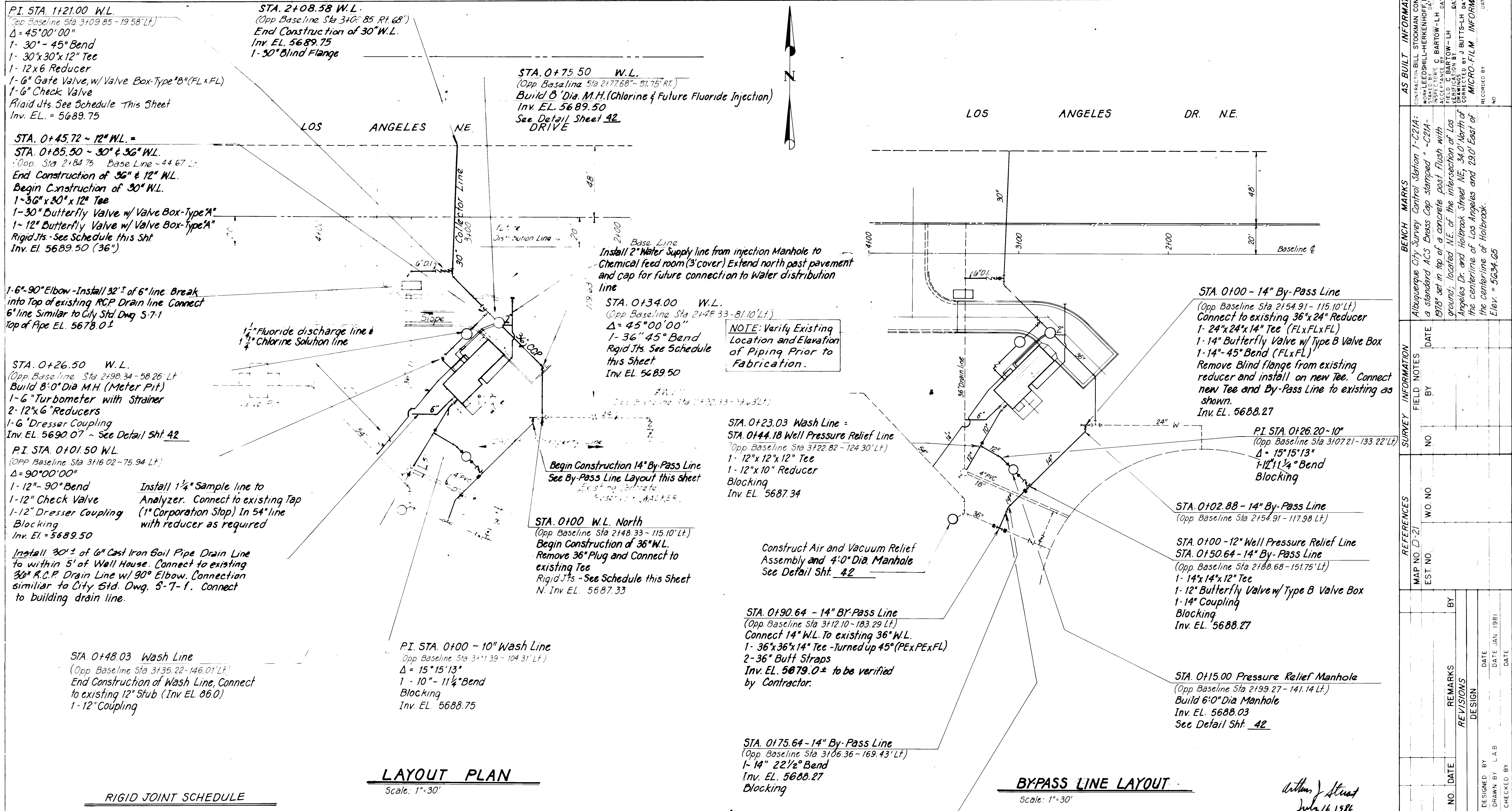
**TITLE: ATRISCO NO.5, VOLCANO CLIFFS NO.3 AND WALKER NO.1 WELL EQUIPMENT
LAYOUT AND GRADING PLAN
(WALKER NO.1)**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E -Hydrology			Water		

DRAWING NO.	
PROJECT NO. 2213	

SHEET 32 OF 47

[illegible]



RIGID JOINT SCHEDULE

Pipe Dia (in)	Station From	Station to	Welded Joints 1/4" Welded length
36"	0+00	0+86.50	60"
30"	0+86.50	1+21	40"
30"	1+21	1+50	20"
30"	1+50	2+08.58	40"

RECORD DEPT.
APR 4 1986
26 22133386
These drawings have been prepared on field data and are not to be used for actual construction as actually performed.

PREPARED UNDER THE DIRECTION OF

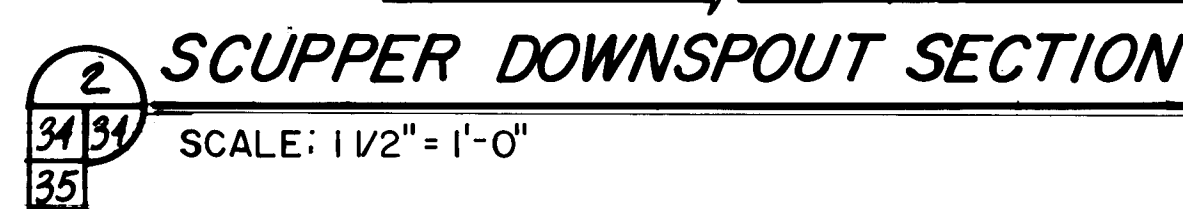
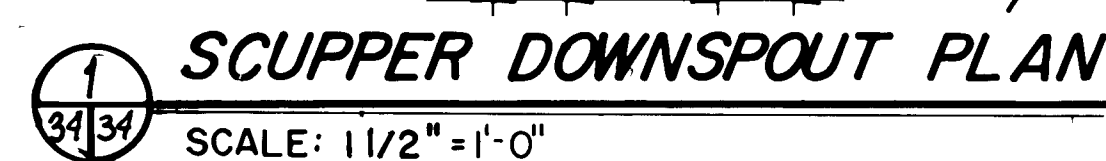
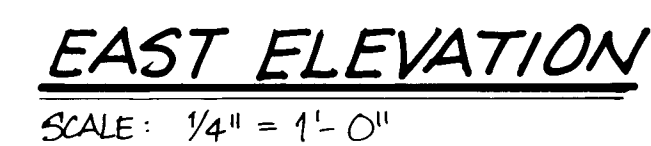
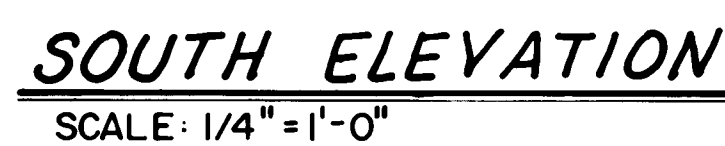
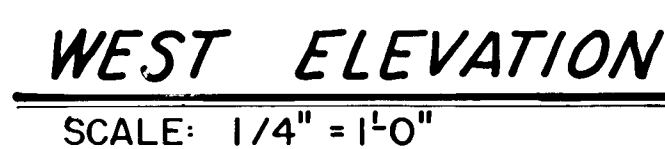
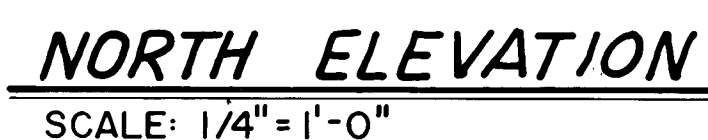
CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

TITLE: ATRISCO NOS. VOLCANO CLIFFS NOS 3 AND WALKER NO.1 WELL EQUIPMENT
YARD PIPING PLAN
(WALKER NO.1)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

DRAWING NO. SHEET 33 OF 47
PROJECT NO. 2213

AS BUILT INFORMATION	BENCH MARKS	SURVEY INFORMATION	REFERENCES	REVISIONS	DESIGN
CONTRACTOR: BILL STORMAN CONST. CO. DRAWN BY: J. BARTOW-LH CHECKED BY: J. BARTOW-LH DATE: 3/86 VERIFIED BY: J. BUTTS-LH DATE: 3/86 MICRO-FILM INFORMATION RECORDED BY: NO	Albuquerque City Survey Control Station 1-C214: a standard ACS Brass Cap stamped "C214-1978" set in top of a concrete post flush with ground, located N.E. of the intersection of Los Angeles Dr. and Holbrook Street N.E. 34.0' North of the centerline of Los Angeles and 29.0' East of the centerline of Holbrook. Elev. = 5634.65	FIELD NOTES NO BY DATE	MAP NO. D-21 EST. NO. WO. NO. DATE	NO DATE REVISIONS DESIGN	DESIGNED BY: DATE JAN 1981 DRAWN BY: LAB CHECKED BY: DATE



PREPARED UNDER THE
DIRECTION OF



R. E. Derkewitz

APPROVED FOR
CONSTRUCTION

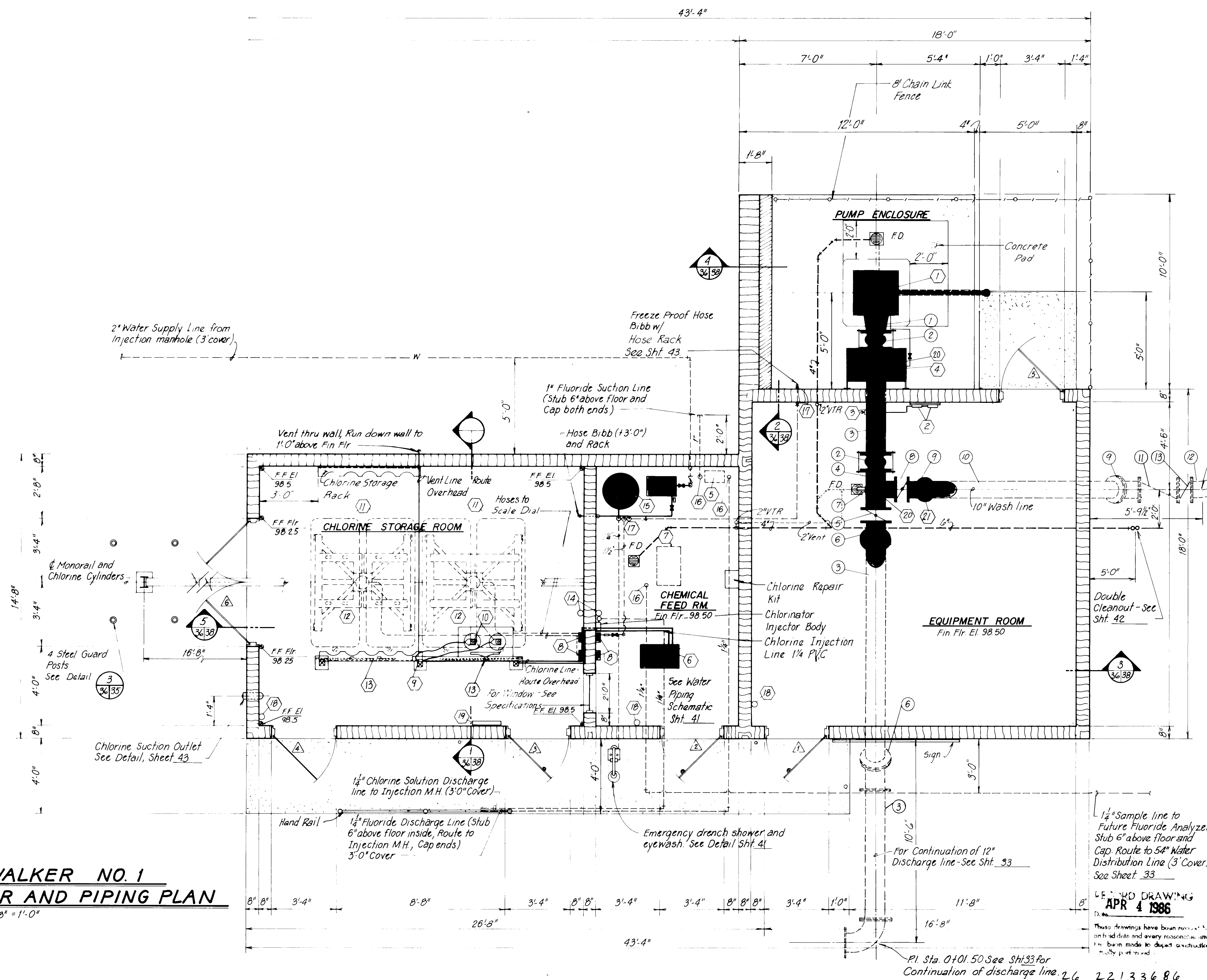
CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT ENGINEERING DIVISION				
TITLE: ATRISCO NO.5, VOLCANO CLIFFS NO.3 AND WALKER NO.1 WELL EQUIPMENT BUILDING ELEVATIONS (WALKER NO.1)				
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER
City Engineer			Liquid Waste	
A.C.E.-Design			Traffic	
A.C.E.-Hydrology			Water	
DRAWING NO. 4			SHEET 34 OF 47	
PROJECT NO. 2213				

CITY ENGINEER DATE

CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT ENGINEERING DIVISION				
TITLE: ATRISCO NO.5, VOLCANO CLIFFS NO.3 AND WALKER NO.1 WELL EQUIPMENT FOUNDATION PLAN DETAILS AND ROOF DRAINAGE DETAILS (WALKER NO.1)				
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER
City Engineer			Liquid Waste	
A C E - Design			Traffic	
A C E - Hydrology			Water	
DRAWING NO.			SHEET	
PROJECT NO 2213			OF	
			35 47	

WALKER NO. 1 FLOOR AND PIPING PLAN

Scale: 3/8" = 1'-0"



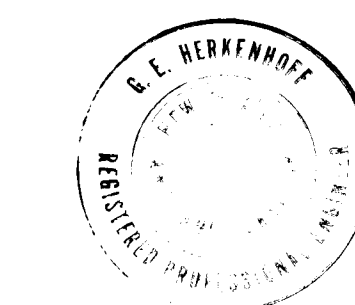
EQUIPMENT SCHEDULE

- 1 Discharge Assembly and Pump
- 2 Mercoid Pressure Switch and Pressure Gage See Sheet 43
- 3 No Flow Electrode, Mount on top of pipe, 6\" from Wall (Min)
- 4 55 Gal Oil drum (Pump Gear Oil) See Sheet 43
- 5 Future Fluoride Pump
- 6 Chlorinator
- 7 Future Fluoride Analyzer
- 8 Chlorine Scale Dials
- 9 Cross w/ Standby Pressure Relief Valve, and Vent to Outside
- 10 Switchover Vacuum Regulator Check Unit
- 11 1 ton Chlorine Cylinders (Supplied by others)
- 12 Hydraulic Load Cell Scale (Stored in Room for future use.)
- 13 Chlorine Piping Support - See Sht. 41 Typ
- 14 Chlorine Leak Detector - Mount 1'-0\" above Floor
- 15 Hydropneumatic Tank and Pump
- 16 Cap 6\" above Floor
- 17 Hose Bibb
- 18 Fire Extinguisher
- 19 Procedures Enclosure - See Sht. 40
- 20 Pipe Stand
- 21 Water Leak Detector - mount in bottom

NOTE: See Electrical drawings for Electrical Equipment layout

PIPING FITTING SCHEDULE

- 1 12\" x as required
- 2 12\" Flexible Coupling w/ Restraints
- 3 12\" Spool FLxFL
- 4 12\" x 12\" x 10\" Tee FLxFL
- 5 12\" Motorized Butterfly Valve
- 6 12\" - 45° Bend FLxFL
- 7 2\" Air & Vacuum Relief Valve with 2\" gate valve
- 8 10\" Motorized Butterfly Valve
- 9 10\" 45° Bend FLxFL
- 10 10\" Spool FLxFL
- 11 10\" Check Valve
- 12 10\" - 11 1/4\" Bend FLxFL
- 13 10\" Butterfly Valve with Type B Valve Box

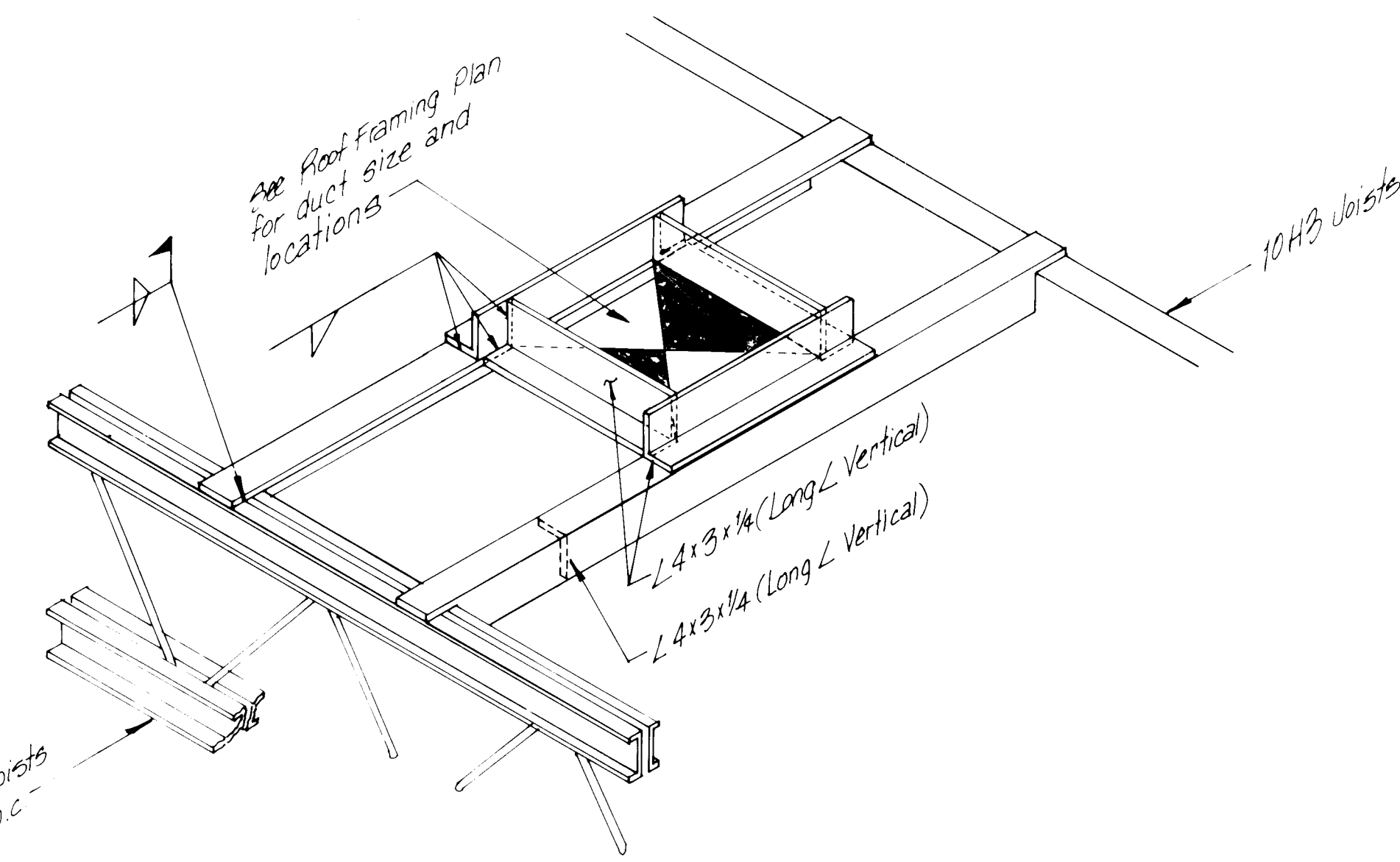


**APPROVED FOR
CONSTRUCTION**

CITY ENGINEER DATE

CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT ENGINEERING DIVISION					
TITLE: ATRISCO NOS, VOLCANO CLIFFS NO. 3 AND WALKER NO. 1 WELL EQUIPMENT FLOOR AND PIPING PLAN					
(WALKER NO. 1)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		
DRAWING NO.			SHEET 36 OF 47		
PROJECT NO. 2213					

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		REFERENCES		REVISIONS		DESIGN		REMARKS	
CONTRACTOR	STOCKMAN	CONST. CO.	DATE	NO.	BY	DATE	MAP NO.	EST. NO.	W.O. NO.	NO.	DATE	DESIGNED BY	DATE
EDSHILL-HERKENHOFF			3/86										
INSPECTOR	C. BARTOW-LH		DATE 3/86										
FIELD ENGINEER			DATE 3/86										
VERIFICATION BY			DATE 3/86										
CHECKED BY			DATE 3/86										
MICRO-FILM INFORMATION		RECORDED BY		NO.		DATE		DATE		DATE		DATE	



Not to Scale

$$\therefore \text{a.e. } 3/8'' = 1' - 0''$$


BEAM BEARING DETAIL SCHEDULE								
LOCATION	A	B	C	D	E	G	H	N
①	5'10" x 25.4	14"	10"	0"	24"	2 1/2"	12"	2'8"
②	5'7" x 15.3	8"	7"	1"	16"	2 1/2"	8"	2'0"



Scale: $3'' = 1'$

Scale: $3'' = 1'$



37 38 37 Scale: $1\frac{1}{2}'' = 1'-0''$

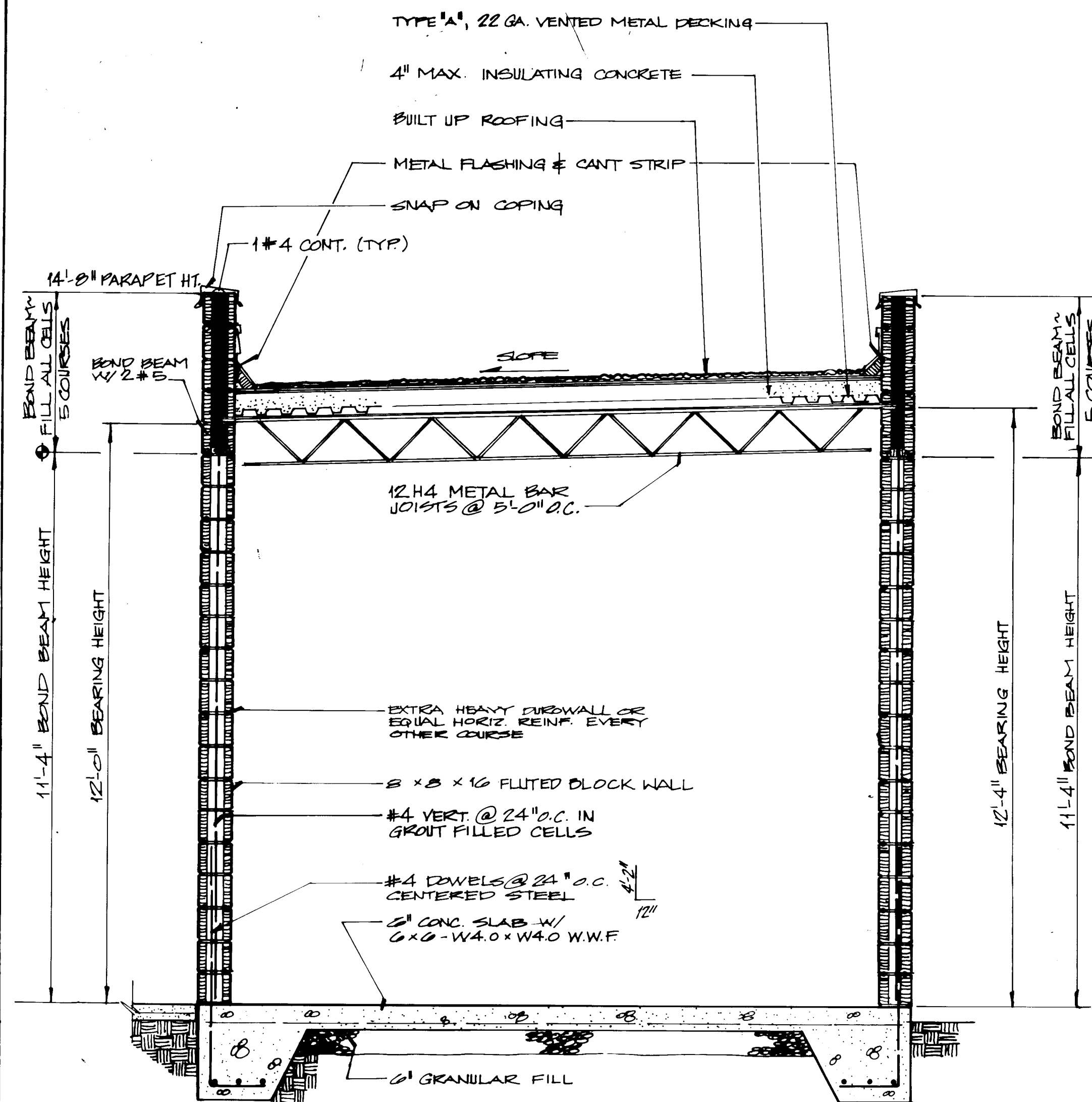
SECTION



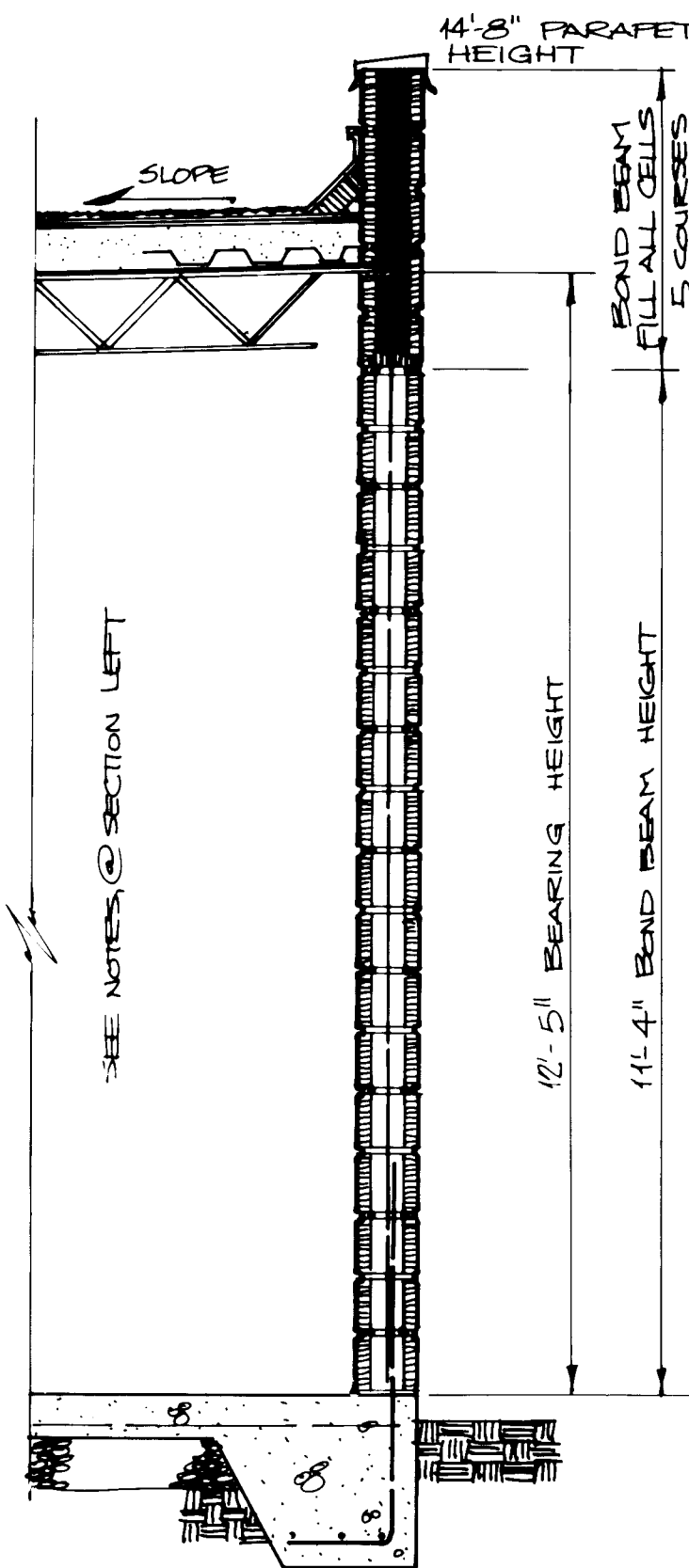
These drawings have been reviewed based on field data and every reasonable attempt has been made to depict construction as actually performed.

26 2.2133786

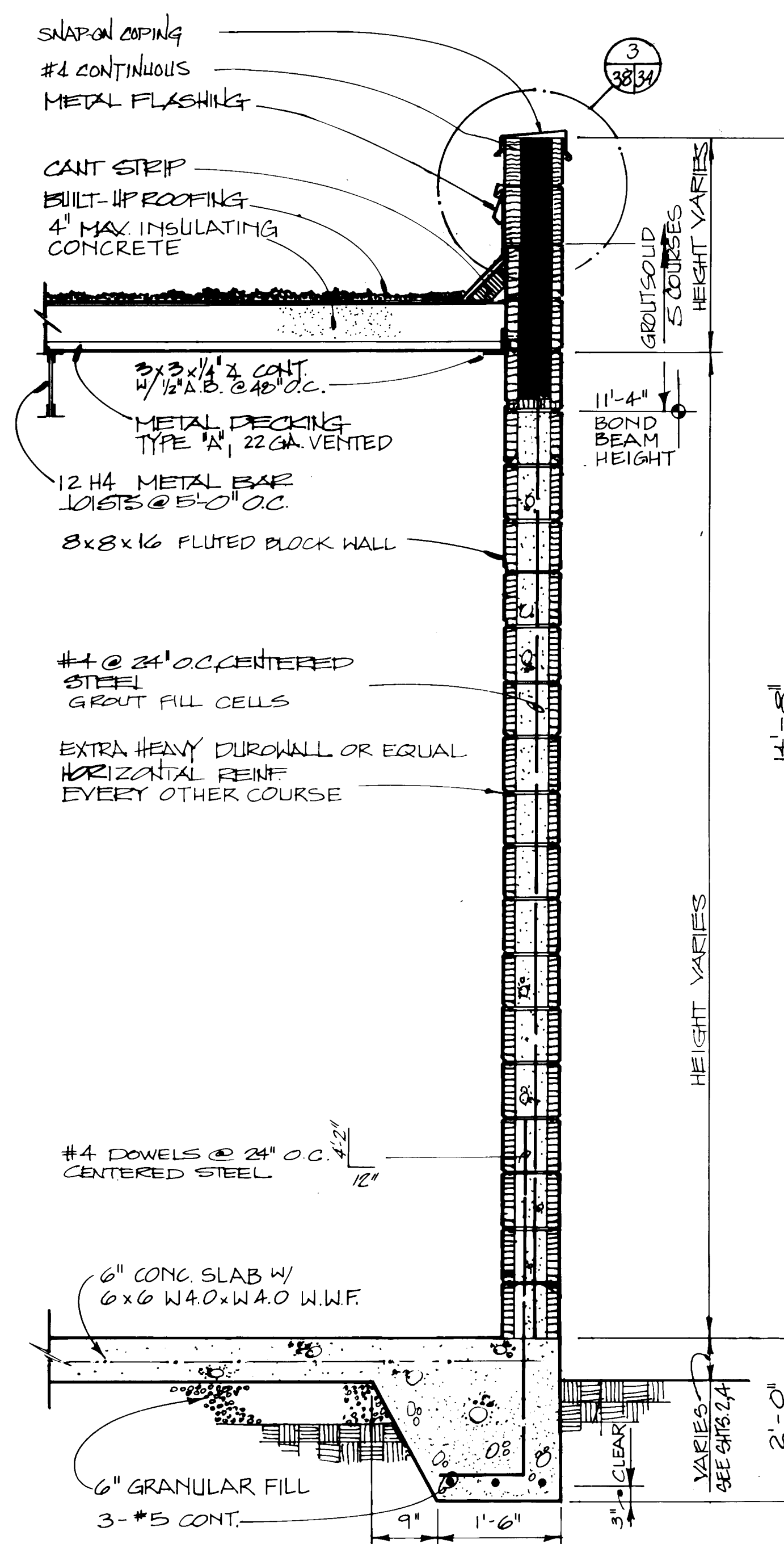
PREPARED UNDER THE DIRECTION OF 	CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT ENGINEERING DIVISION						
APPROVED FOR CONSTRUCTION CITY ENGINEER _____ DATE _____	TITLE: ATRISCO NO.5, VOLCANO CLIFFS NO.3 AND WALKER NO.1 WELL EQUIPMENT ROOF FRAMING PLAN AND DETAILS (WALKER NO.1)						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">APPROVALS</th> <th style="width: 33%;">ENGINEER</th> <th style="width: 33%;">DATE</th> </tr> </thead> <tbody> <tr> <td style="height: 40px; vertical-align: top;"> City Engineer A-E Design A-E Hydrology </td> <td style="height: 40px; vertical-align: top;"> _____ _____ _____ </td> <td style="height: 40px; vertical-align: top;"> _____ _____ _____ </td> </tr> </tbody> </table>		APPROVALS	ENGINEER	DATE	City Engineer A-E Design A-E Hydrology	_____ _____ _____	_____ _____ _____
APPROVALS	ENGINEER	DATE					
City Engineer A-E Design A-E Hydrology	_____ _____ _____	_____ _____ _____					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">APPROVALS</th> <th style="width: 33%;">ENGINEER</th> <th style="width: 33%;">DATE</th> </tr> </thead> <tbody> <tr> <td style="height: 40px; vertical-align: top;"> Liquid Waste Traffic Water </td> <td style="height: 40px; vertical-align: top;"> _____ _____ _____ </td> <td style="height: 40px; vertical-align: top;"> _____ _____ _____ </td> </tr> </tbody> </table>		APPROVALS	ENGINEER	DATE	Liquid Waste Traffic Water	_____ _____ _____	_____ _____ _____
APPROVALS	ENGINEER	DATE					
Liquid Waste Traffic Water	_____ _____ _____	_____ _____ _____					
DRAWING NO. _____ SHEET _____ OF _____ PROJECT NO. 2213							



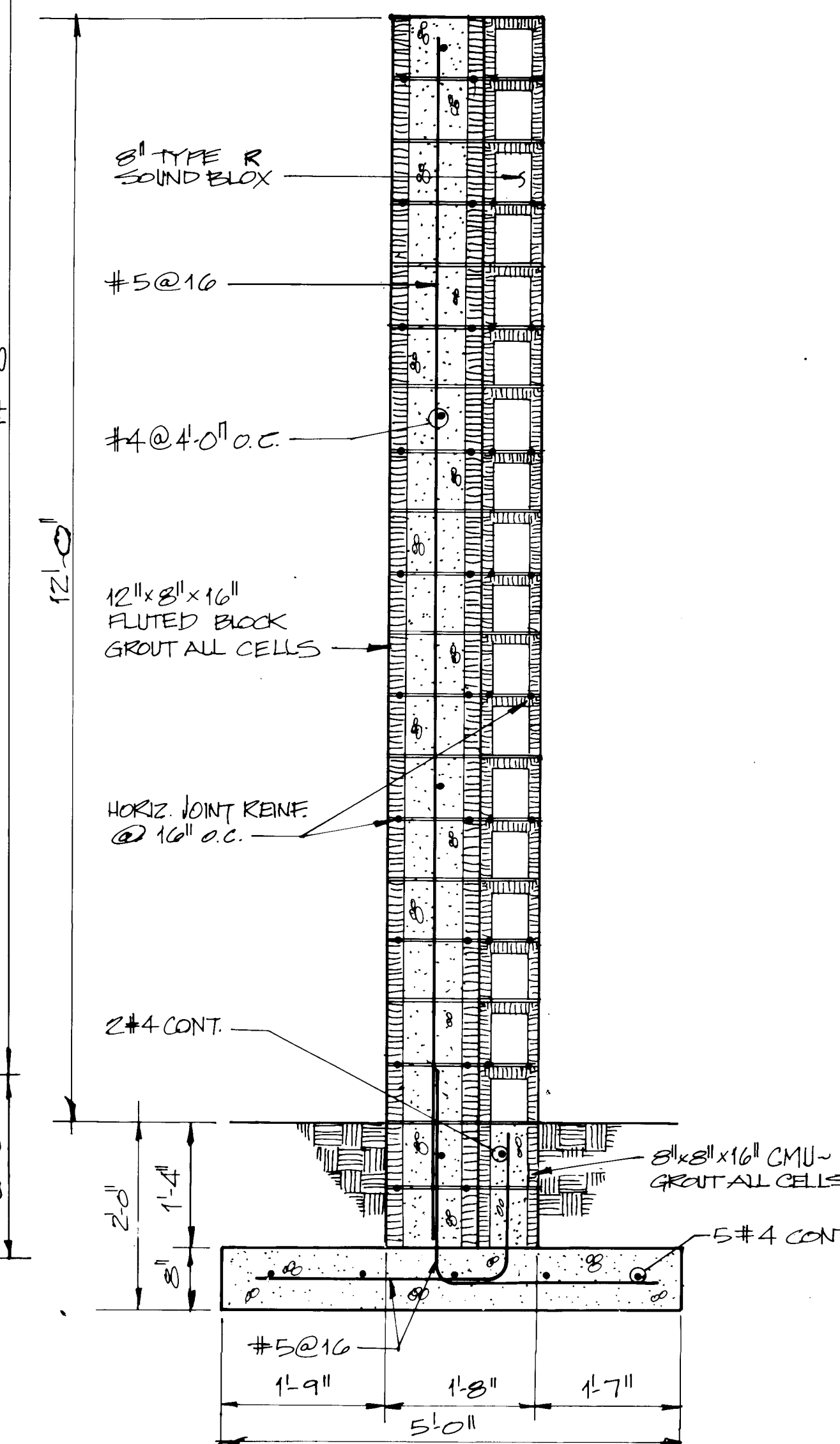
BUILDING SECTION
SCALE: 1/2" = 1'-0"



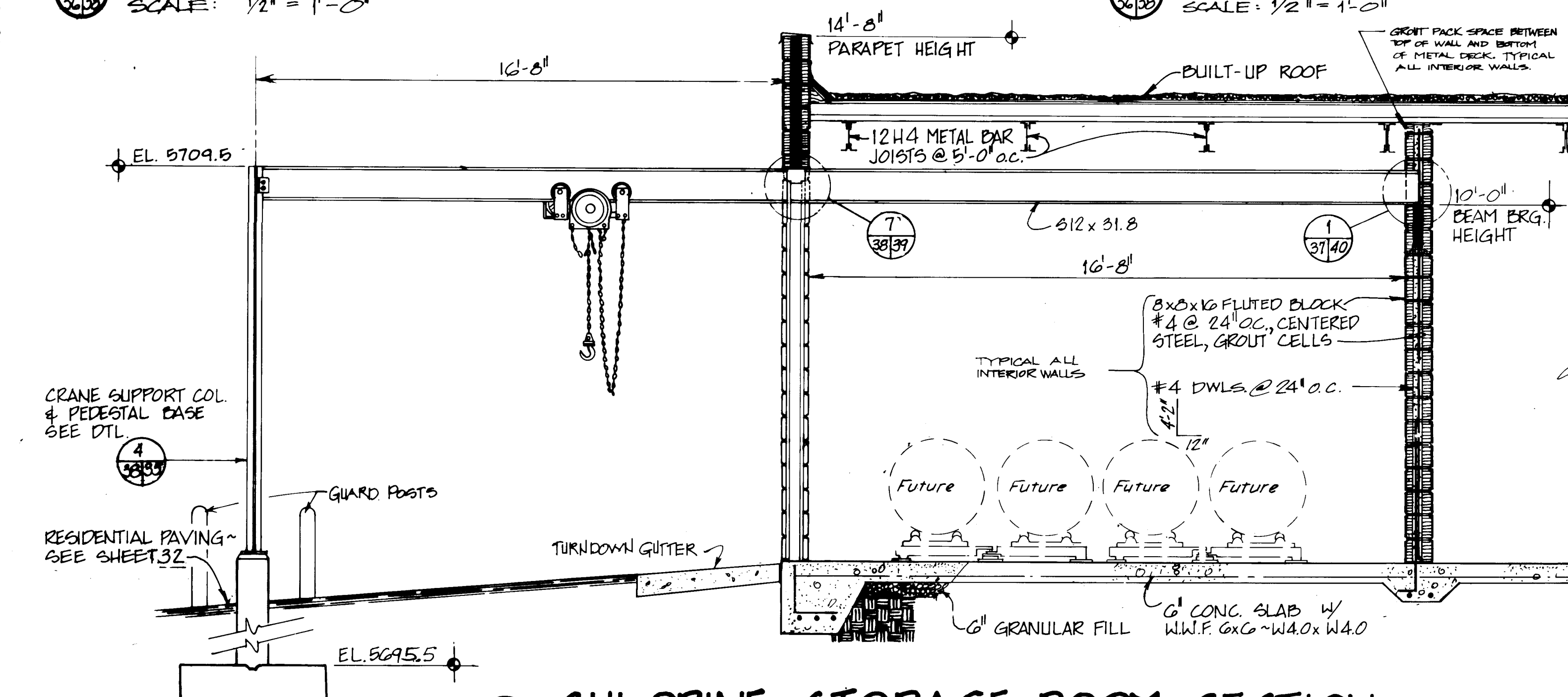
WALL SECTION
SCALE: 1/2" = 1'-0"



WALL SECTION
SCALE: 3/4" = 1'-0"



ACOUSTIC WALL SECTION
SCALE: 3/4" = 1'-0"



CHLORINE STORAGE ROOM SECTION
SCALE: 3/8" = 1'-0"

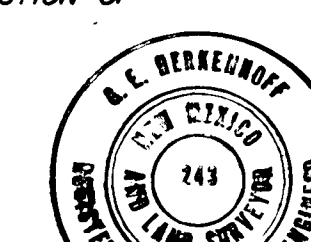
RECORD DRAWING

DATE: 11/13/86

These drawings have been reviewed and approved for construction on field data and every reasonable attempt has been made to depict construction as actually performed.

26 22133886

PREPARED UNDER THE DIRECTION OF



APPROVED FOR CONSTRUCTION

CITY ENGINEER

DATE

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

TITLE: ATRISCO NO.5, VOLCANO CLIFFS NO.3 AND WALKER NO.1 WELL EQUIPMENT
BUILDING AND WALL SECTIONS (WALKER NO.1)

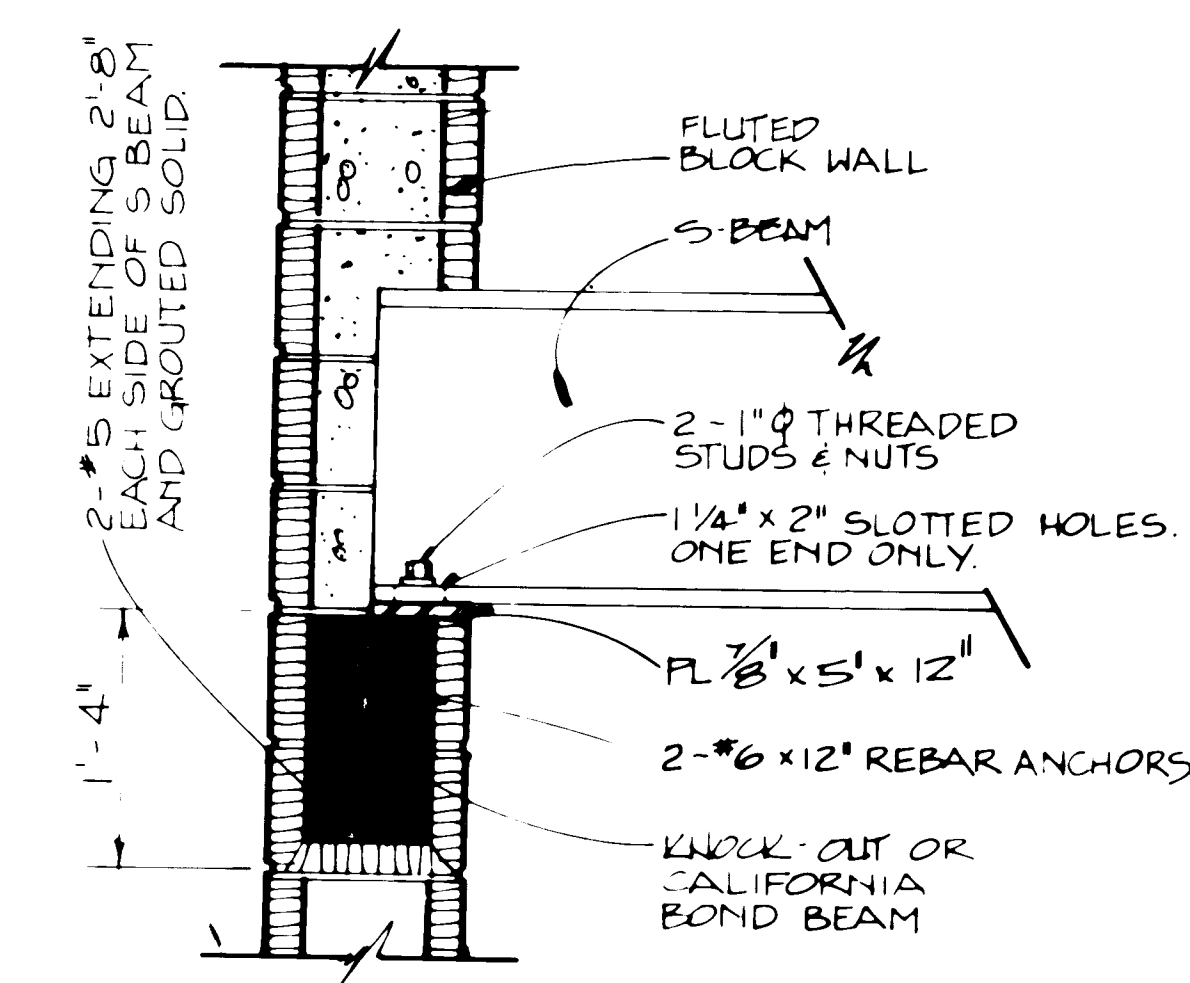
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

DRAWING NO. PROJECT NO. 2213

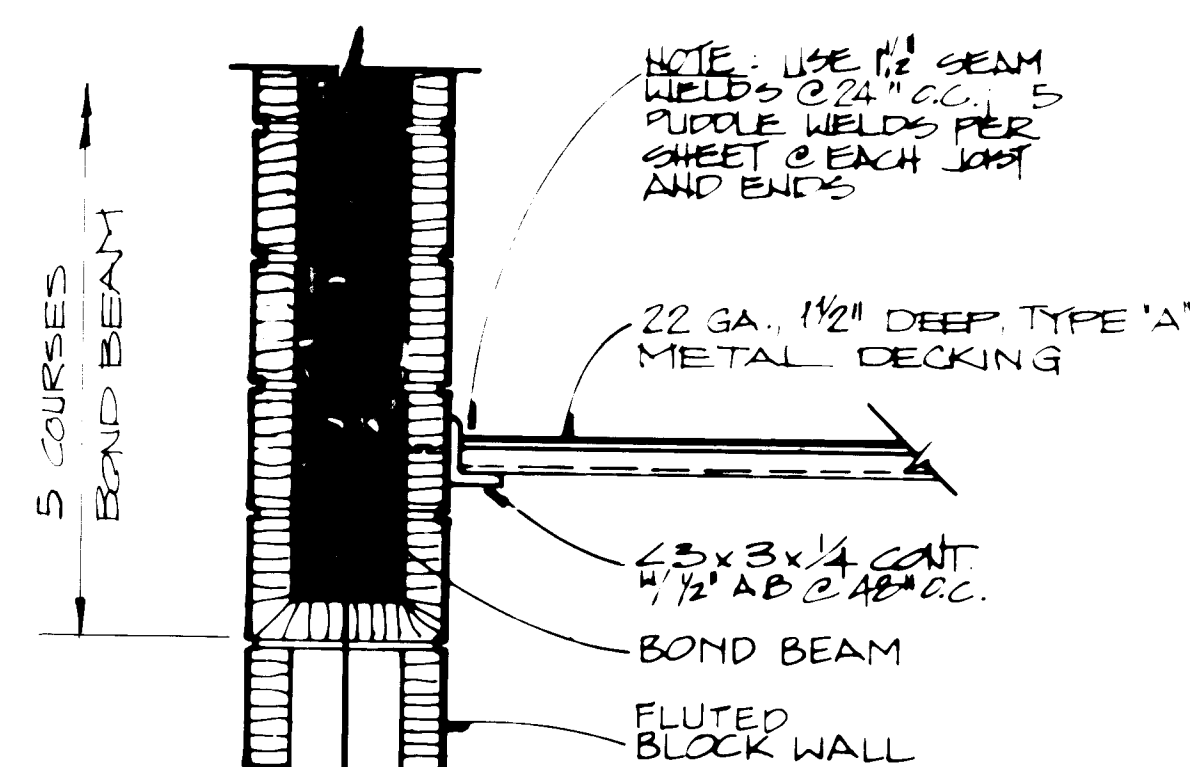
SHEET 38 OF 47

AS BUILT INFORMATION	BENCH MARKS	SURVEY INFORMATION	REFERENCES	REVISIONS	DESIGN
CONTRACTOR: BILL STOCKMAN CONST. CO. WORK: LEEDSHILL - HERKENHOFF, INC. STAMPED BY: J. C. BARTOW - LH DATE: 3/86 ACCEPTANCE BY: J. C. BARTOW - LH DATE: 3/86 FIELD CORRECTION BY: J. BUTTS DATE: 3/86 DRAWINGS CORRECTED BY: J. BUTTS DATE: 3/86 MICRO-FILM INFORMATION RECORDED BY: J. BUTTS DATE: 3/86		FIELD NOTES BY: DATE NO.	MAP NO. EST. NO. W.O. NO.	BY: DATE DESIGN	DESIGNED BY: DATE DRAWN BY: DATE CHECKED BY: DATE

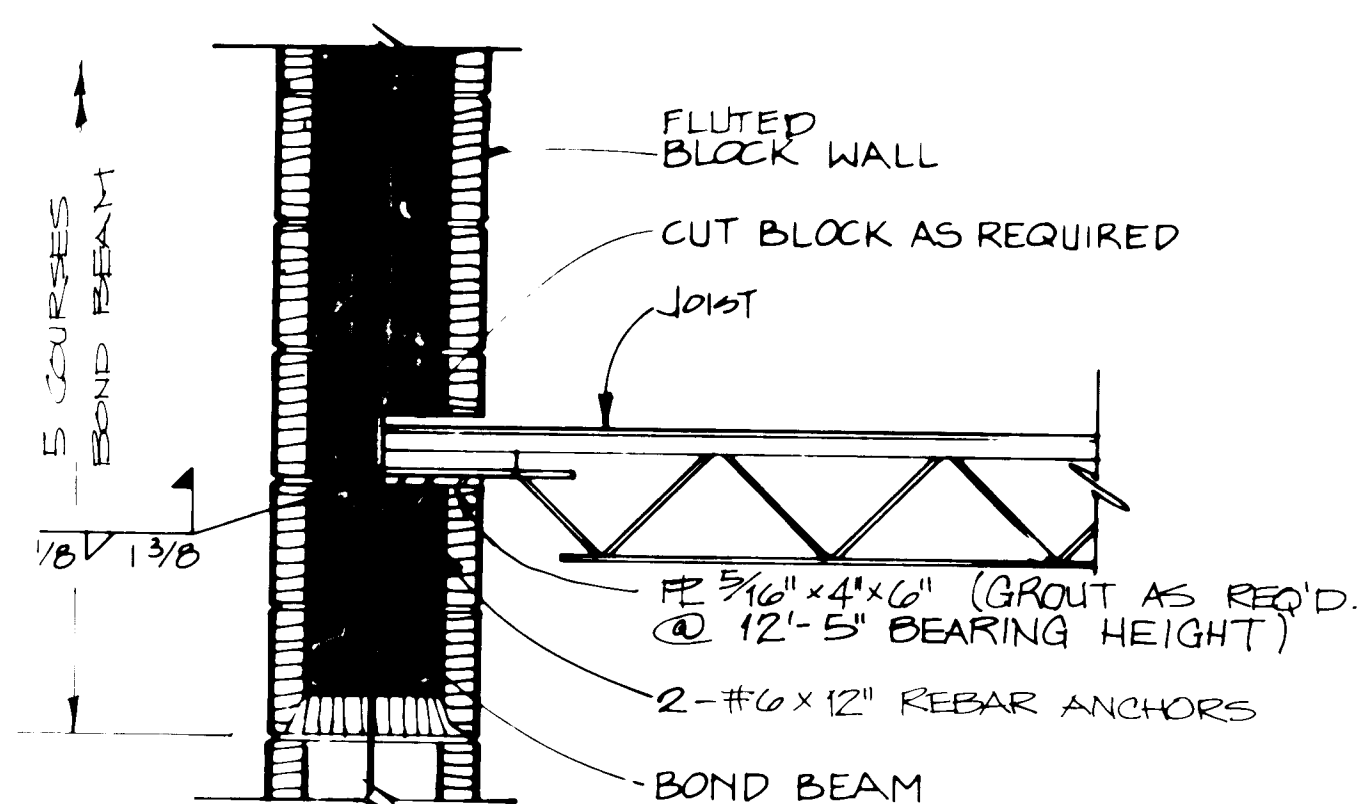
		REFERENCES		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		MAP NO.	FIELD NOTES						
		EST. NO.	W.O. NO.	NO.	BY	DATE			
NO.	DATE	REMARKS	BY						
REVISIONS									
DESIGN									
DESIGNED BY	DATE								
DRAWN BY	DATE								
								RECORDED BY	
								DATE	
								NO.	
CONTRACTOR: BULL STOCKMAN CONST. CO. WORK: LEEDSHILL-HERKENHOFF INC. STAKED BY: DATE 3/86 INSPECTOR'S: C. BARTOW - LH DATE 3/86 FIELD PLANS: BARTOW - LH DATE 3/86 FIELD NOTES: BARTOW - LH DATE 3/86 VERIFICATION BY: DATE 3/86 CORRECTED BY: J. BUTTS - LH DATE 3/86 MICRO-FILM INFORMATION									



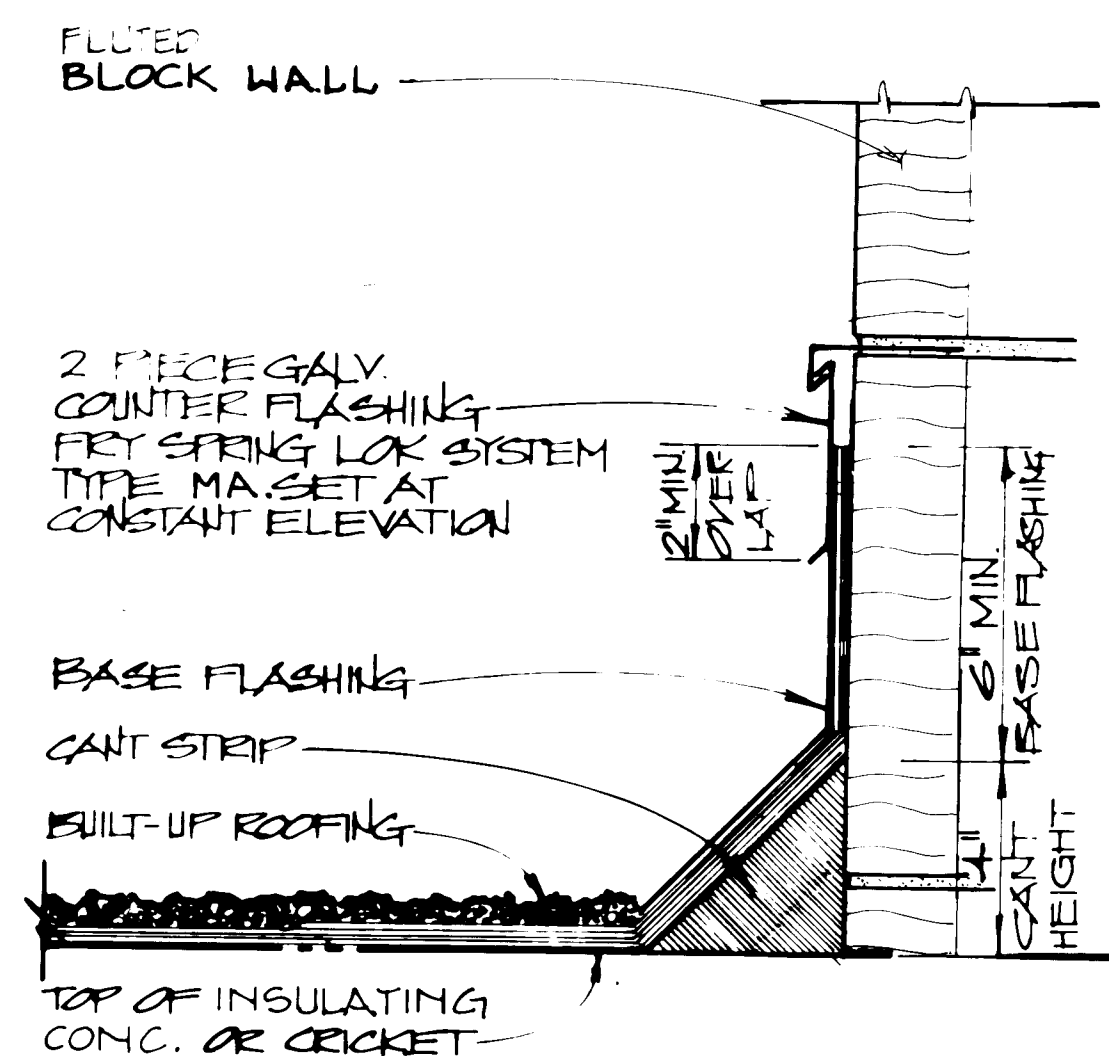
1
37/40 S-BEAM TO WALL
NOT TO SCALE



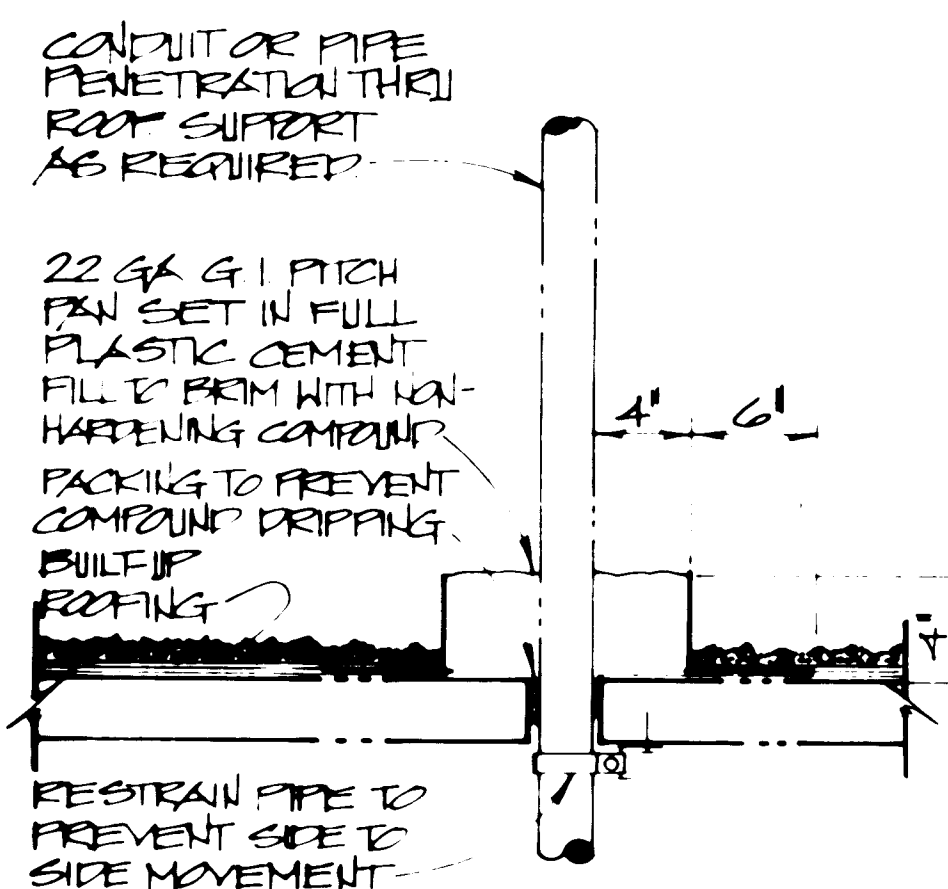
METAL DECK
BEARING DETAIL (TYP.)



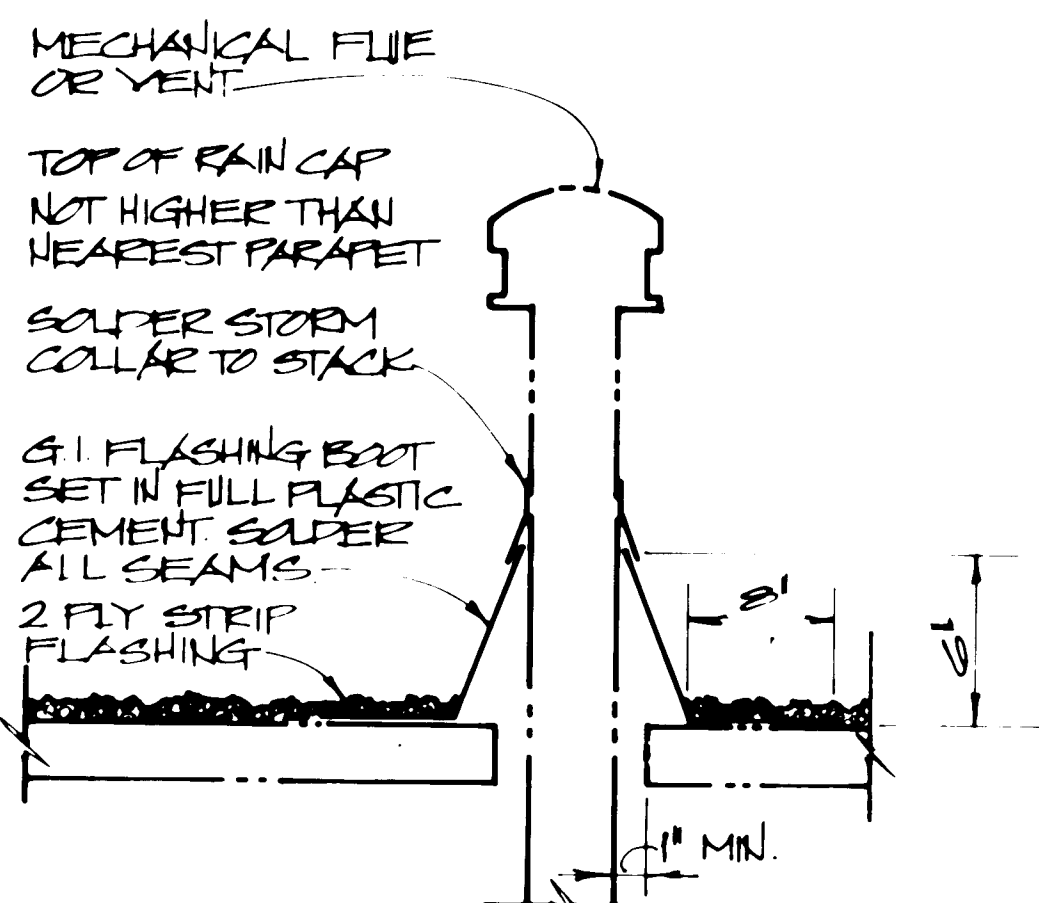
3 JOIST TO BLOCK
3740 BEARING DETAIL
SCALE: 1" = 1'-0"



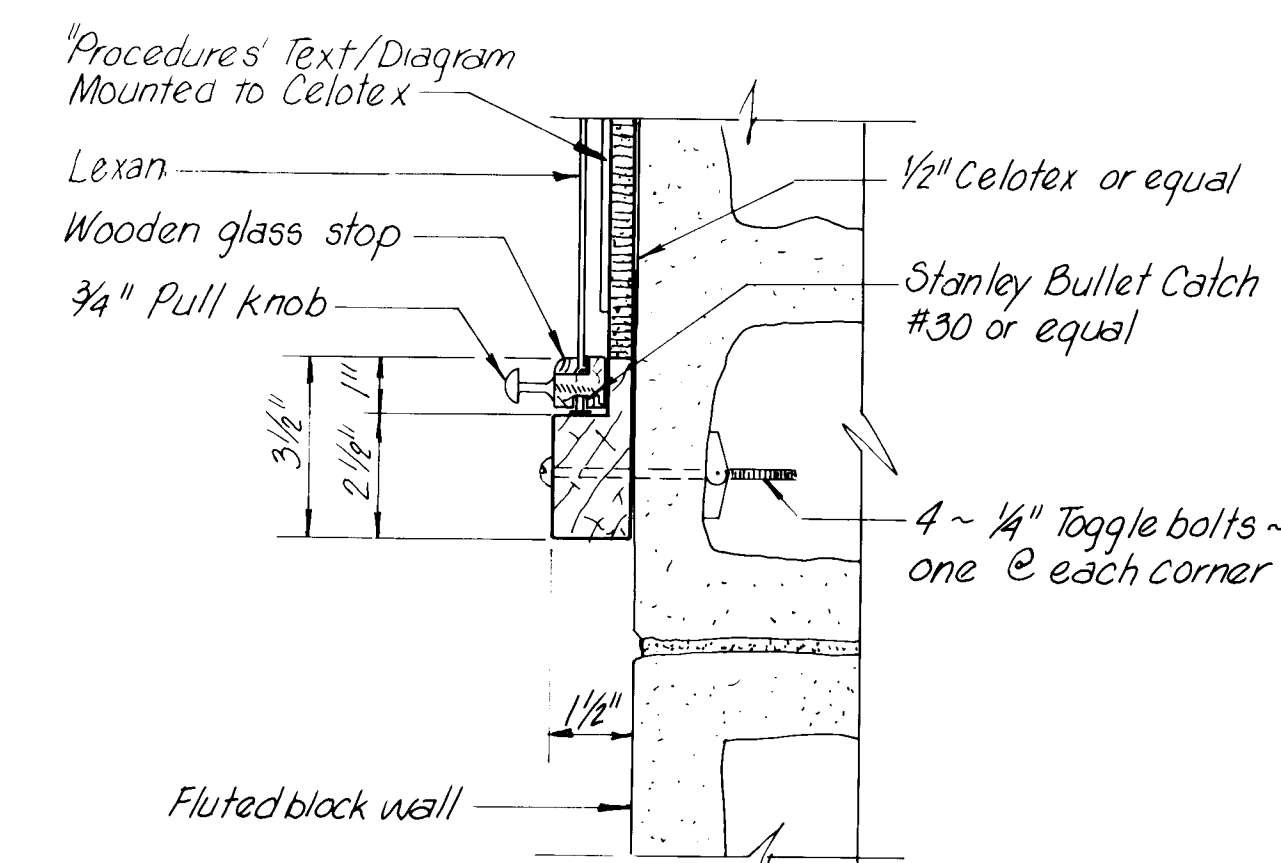
4 SECTION - CANT & FLASHINGS
38/40 SCALE: 3" = 1'-0"



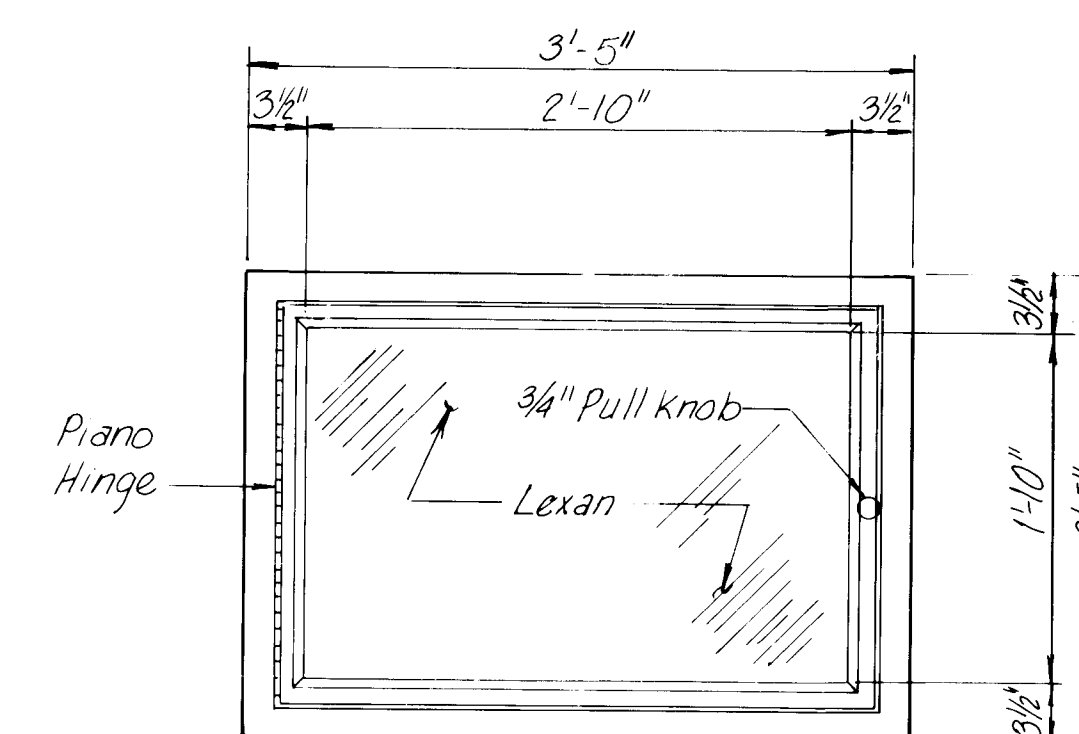
5 SECTION - PIPES & CONDUITS
- 140 NOT TO SCALE



6 SECTION-VENTS & FLUES
140 NOT TO SCALE



SECTION
Scale: 3" = 1'-0"



ELEVATION
Scale: 1" = 1'-0"

7
36 40

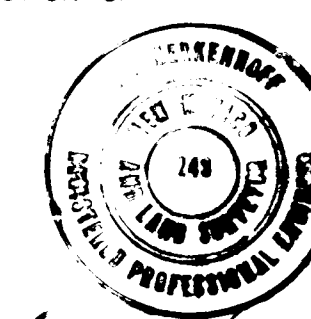
PROCEDURES ENCLOSURE DETAIL

Arthur J. Stuart
July 16, 1886

RECORD DRAWING
APR 1 1986

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

26 22134086



APPROVED FOR
CONSTRUCTION

CITY ENGINEER	DATE
---------------	------

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

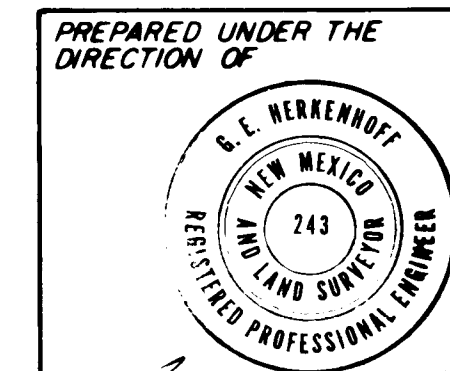
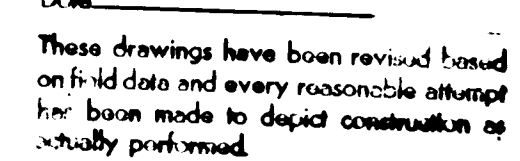
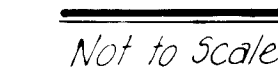
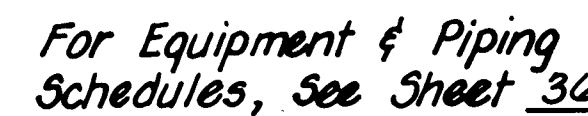
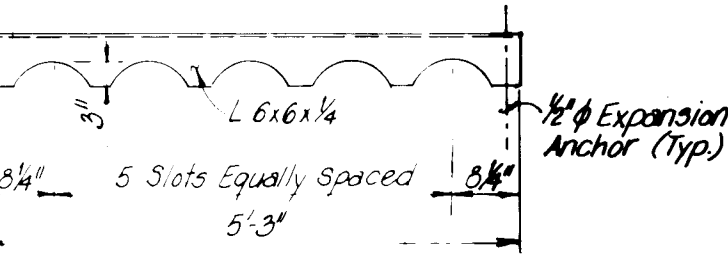
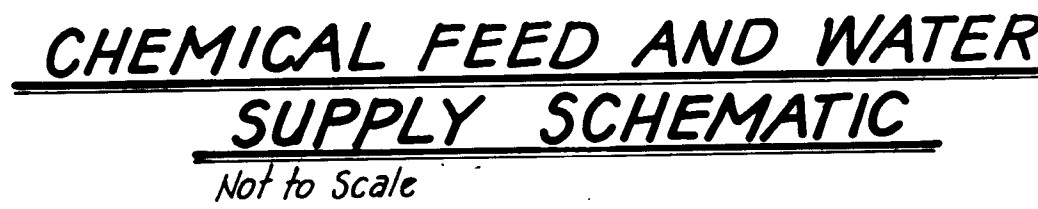
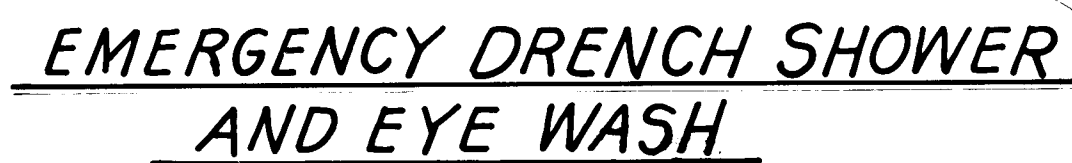
TITLE: ATRISCO NO.5, VOLCANO CLIFFS NO.3 AND WALKER NO.1 WELL EQUIPMENT
BUILDING DETAILS

(WALKER NO. 1)

EXHIBIT 102:					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E - Hydrology			Water		

DRAWING NO.	
PROJECT NO. 2213	

SHEET 40 OF 47



CITY OF ALBUQUERQUE					
WATER RESOURCES DEPARTMENT					
ENGINEERING DIVISION					
TITLE: ELIATISCO NO.5, VOLCANO CLIFFS NO.3 AND WALKER NO.1 WELL EQUIPMENT EMERGENCY SHOWER CHLORINATION PIPING AND WELL PIPING SCHEMATICS (WALKER NO.1)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		
DRAWING NO.			SHEET 41 OF 47		
PROJECT NO. 2213					



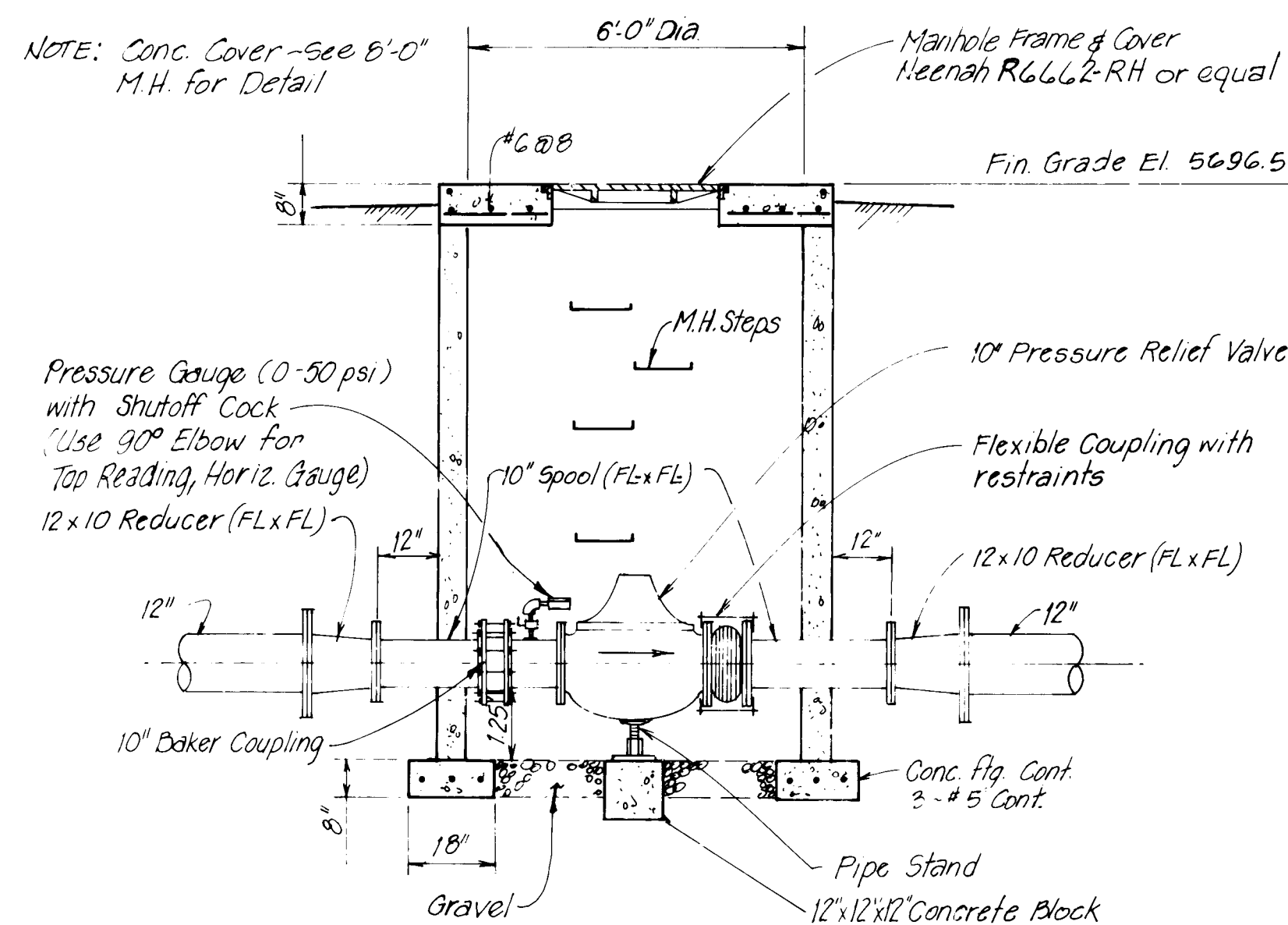
@ STA. 0+26.50 W.L



@ STA. 0+75.50 Waterline

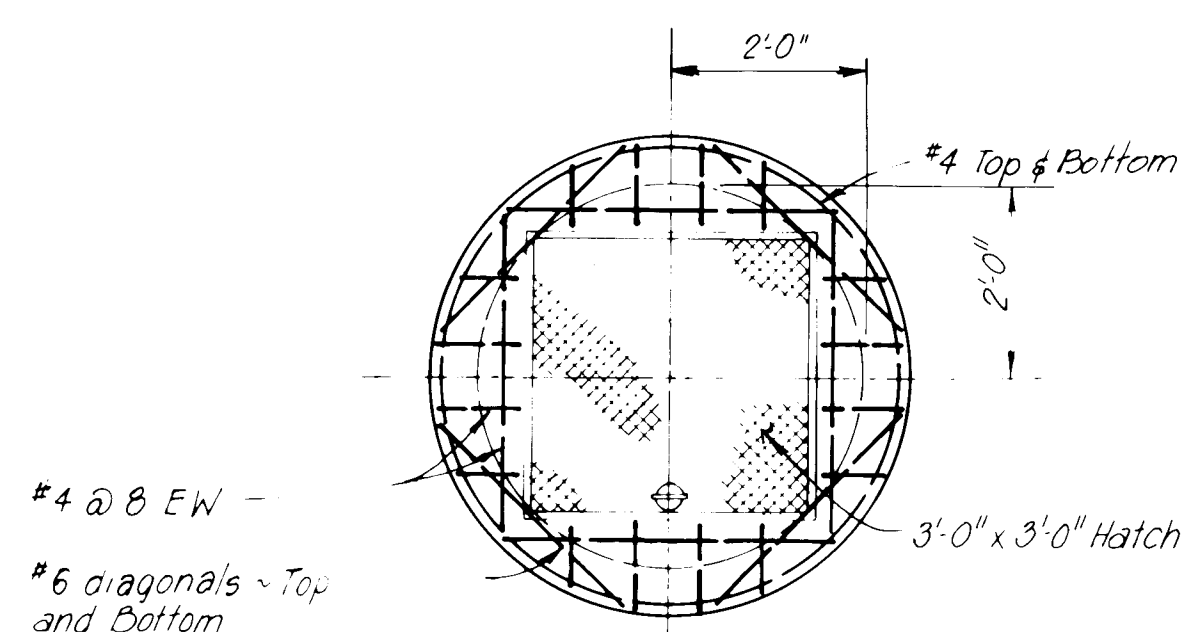
NOTES:

1. For all manholes, at penetration of pipe thru manhole walls, wrap pipe w/ 15 lb. felt and fill annular space w/ non-shrink grout.
2. Manhole steps to extend 7" into M.H. @ 12" o.c., steps to be pre-cast in place or in epoxy cement.



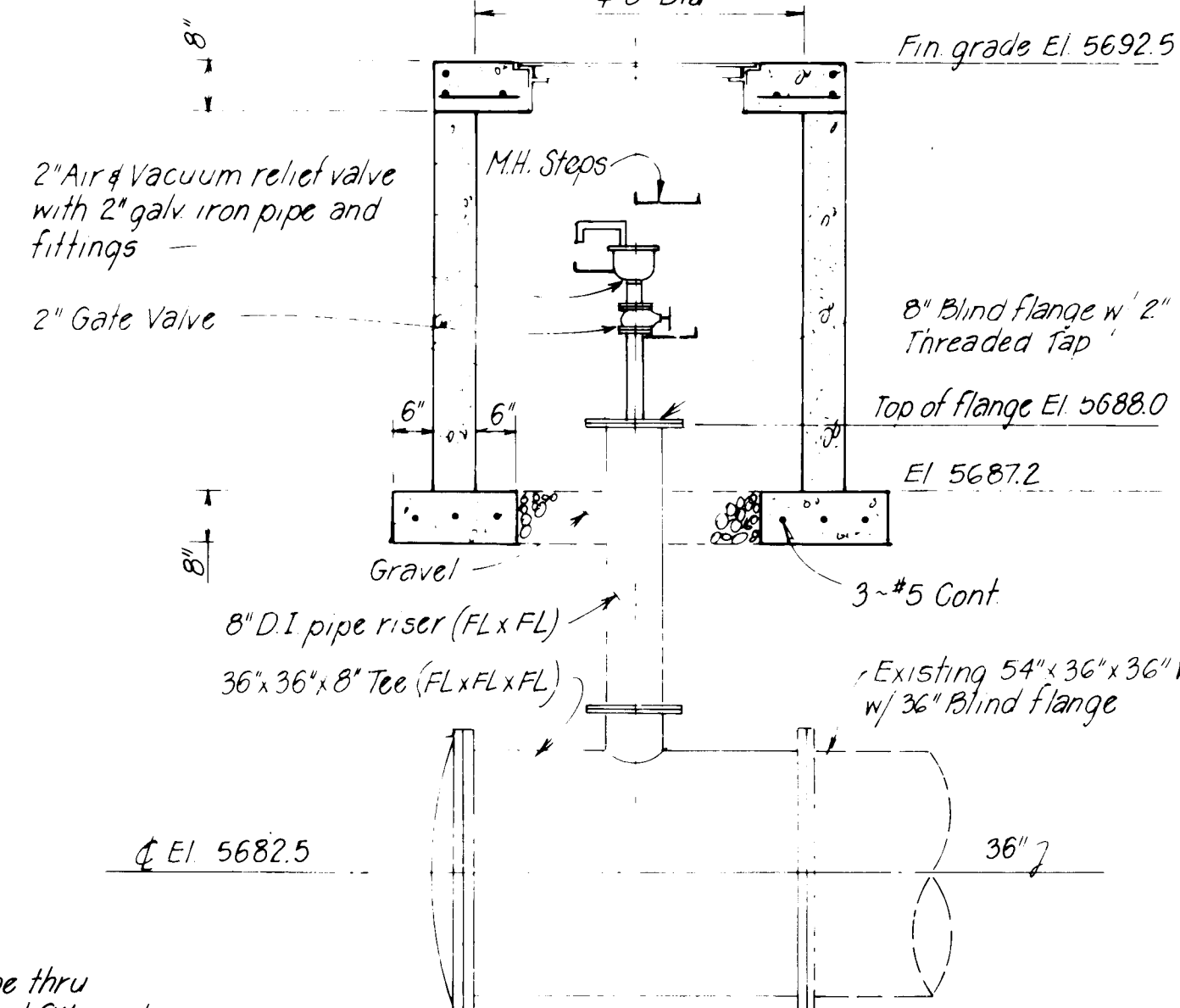
PRESSURE RELIEF VALVE M.H.

② STA. 0+15.00



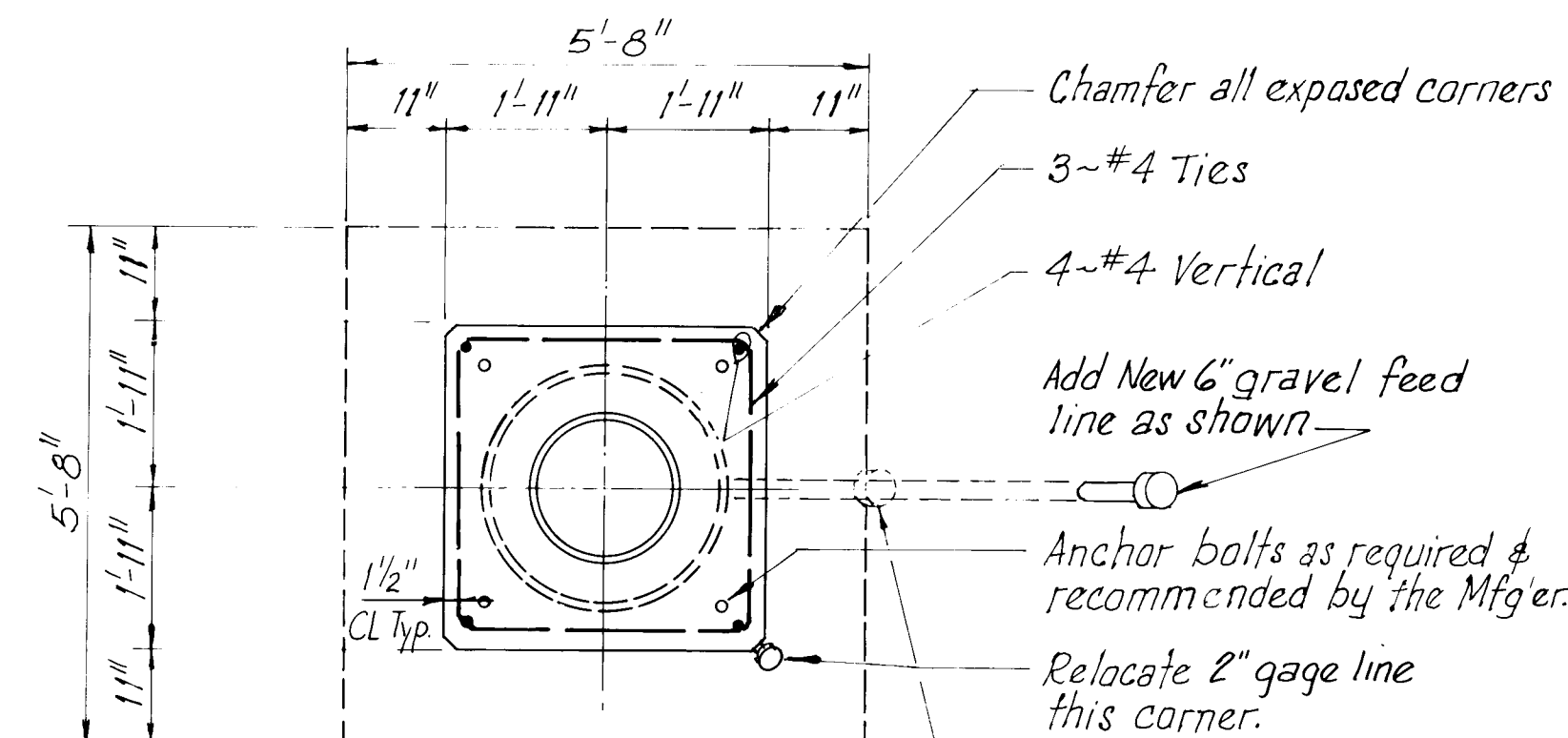
PLAN

4'-0" Dia

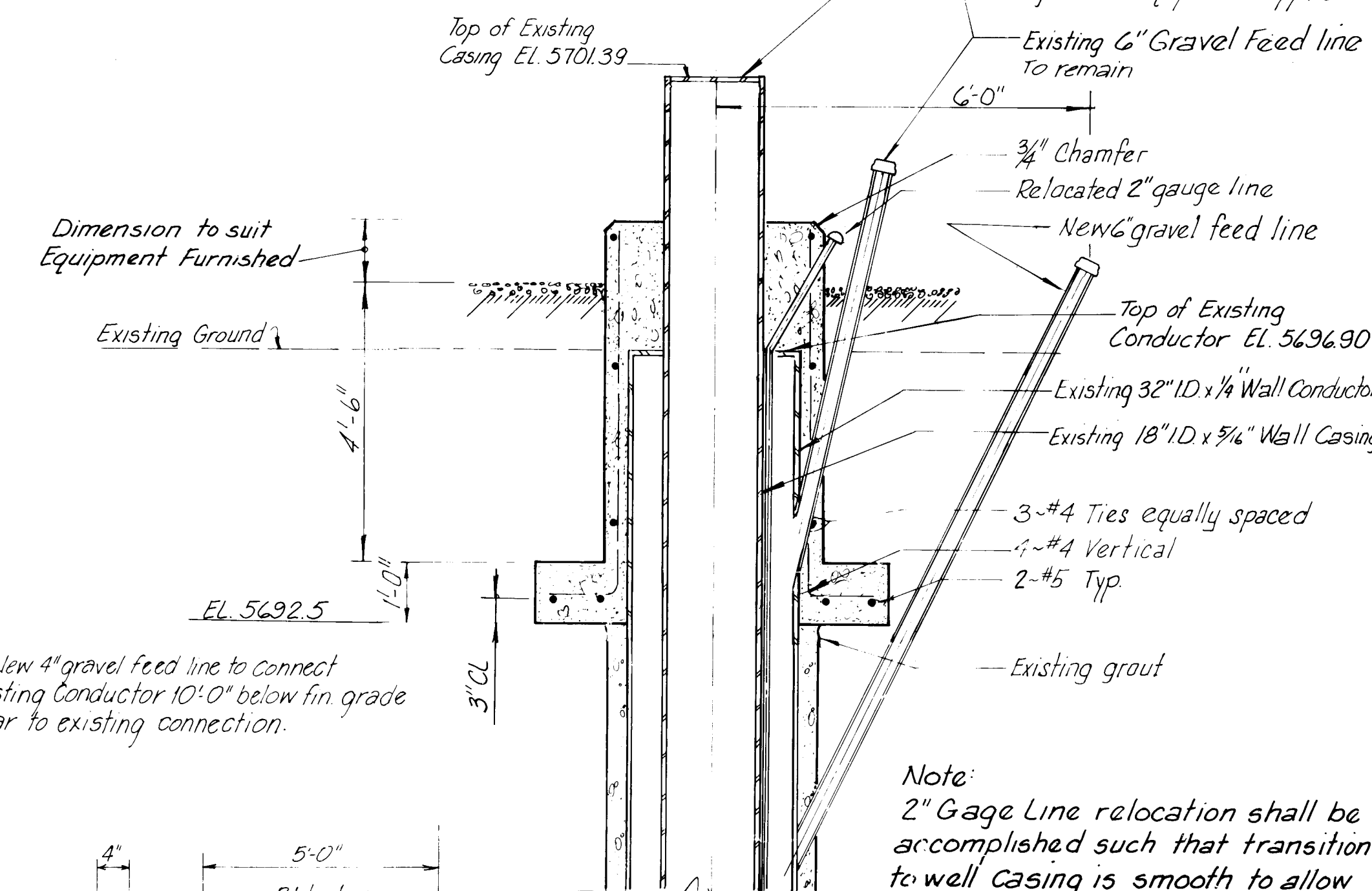


AIR AND VACUUM RELIEF VALVE ASSEMBLY

Scale. $\frac{1}{2}" = 1'-0"$



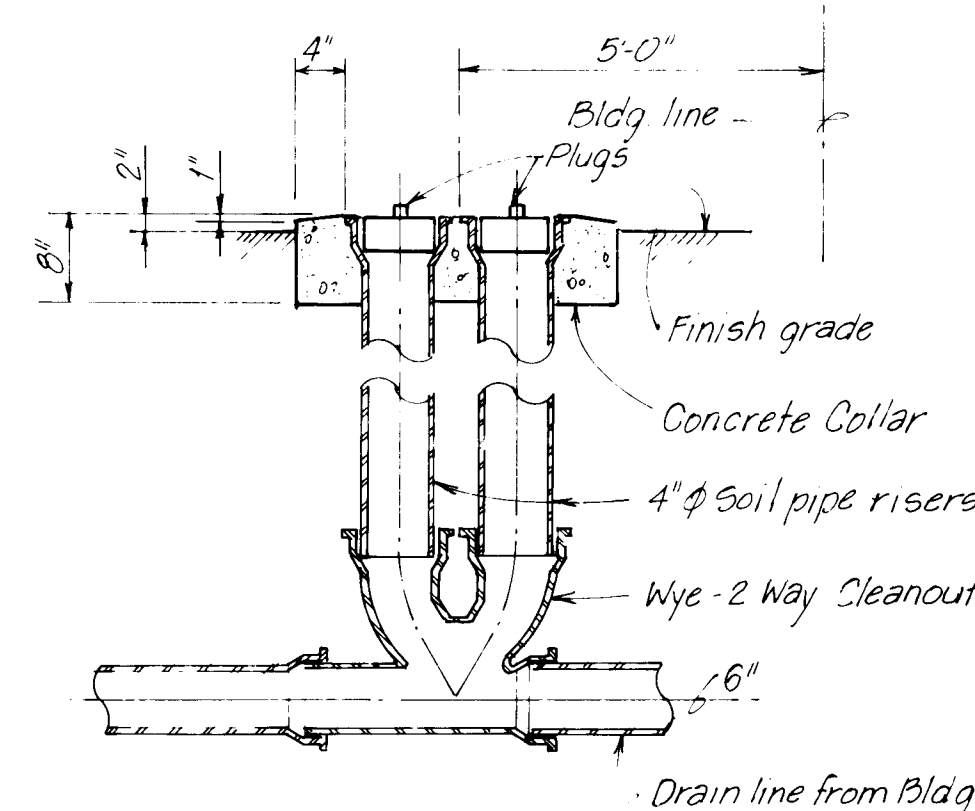
PLAN



SECTION

WALKER PUMP
FOUNDATION DETAIL

Scale: $1/2" = 1'-0"$



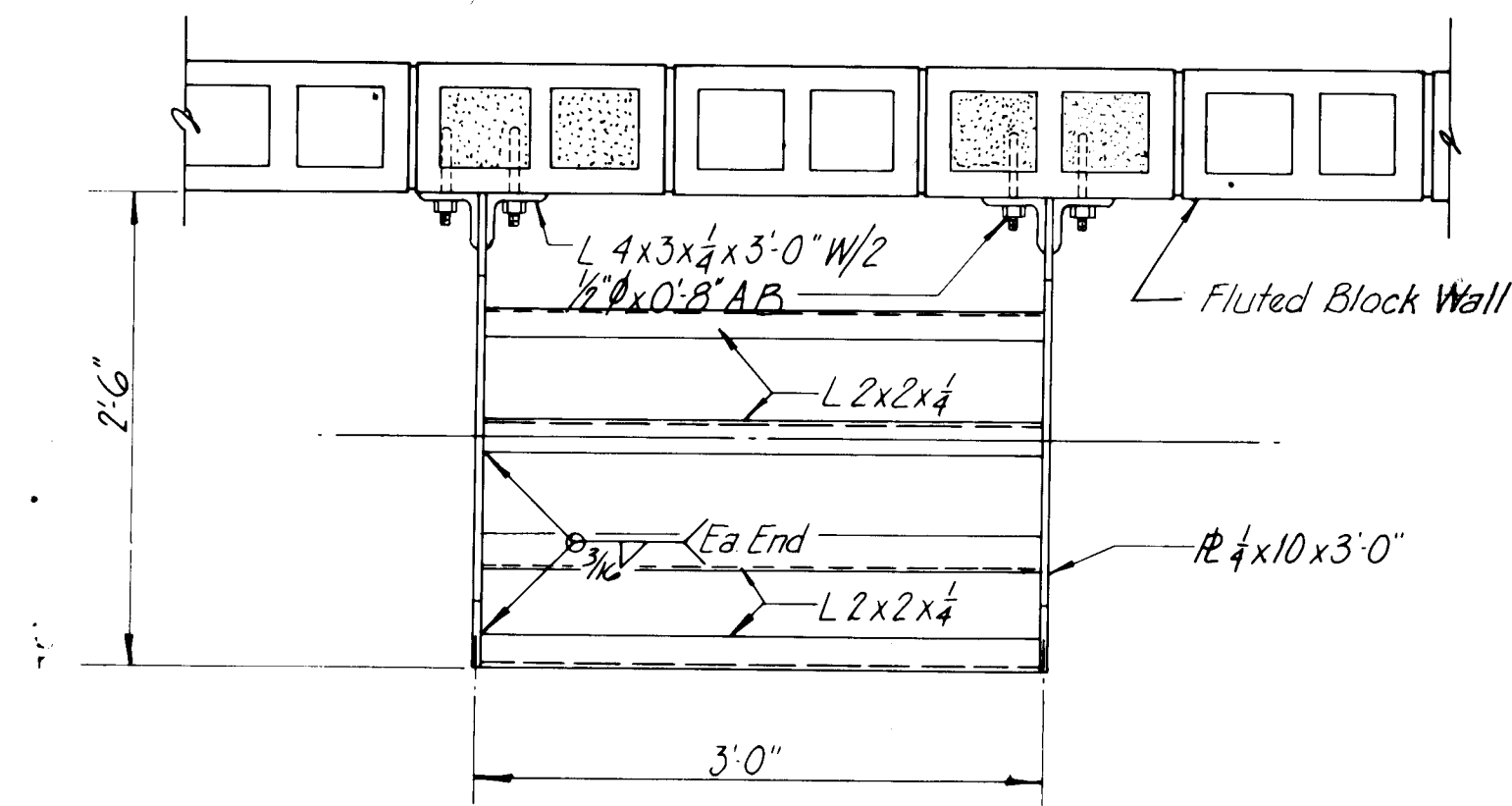
DOUBLE CLEANOUT DETAIL

Scale: None

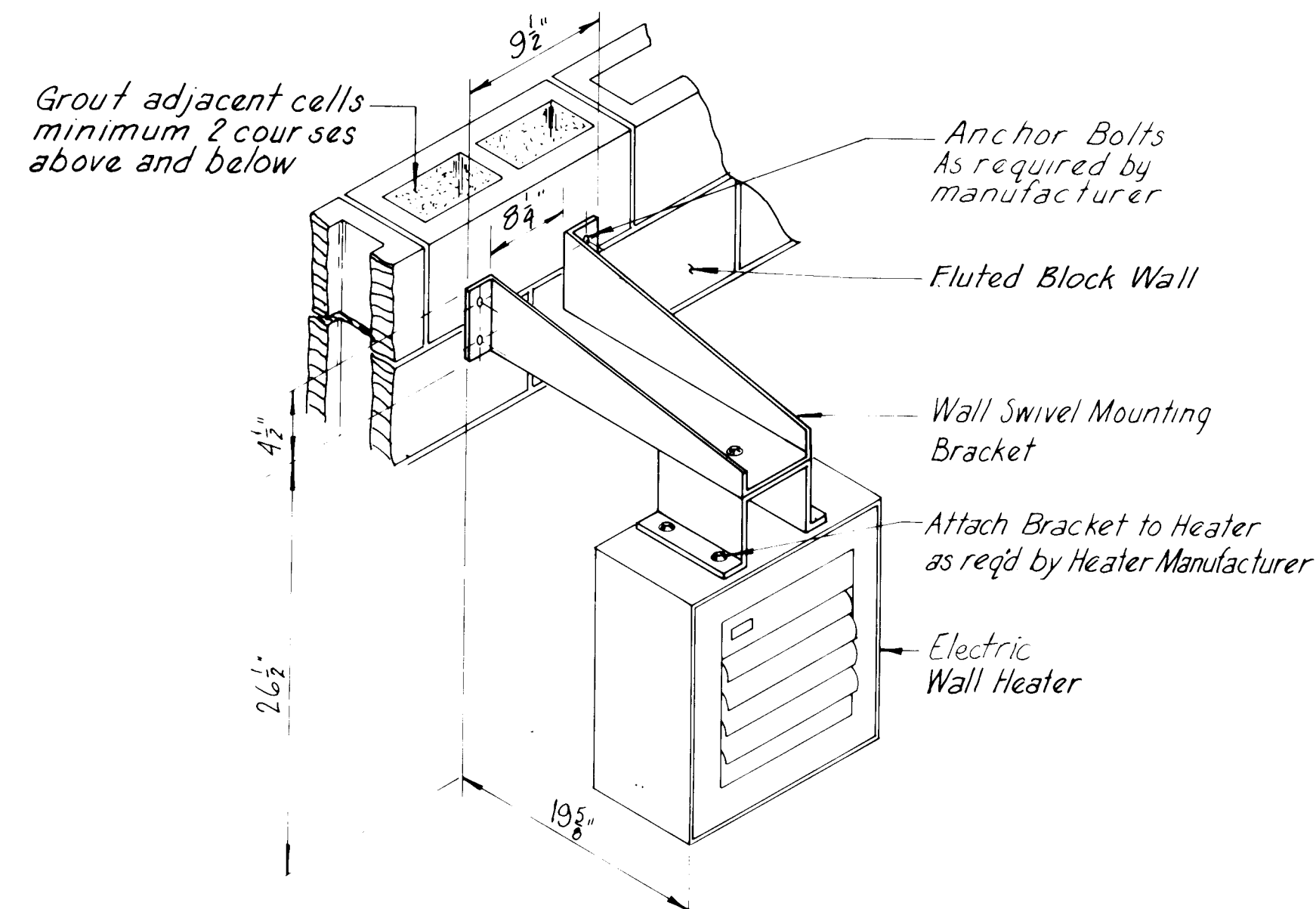
*Note:
2" Gage Line relocation shall be accomplished such that transition to well casing is smooth to allow well drawdown pressure transmits to be installed. Breaks, angles or bends are not acceptable.*

Arthur J. Allen
July 16, 1988

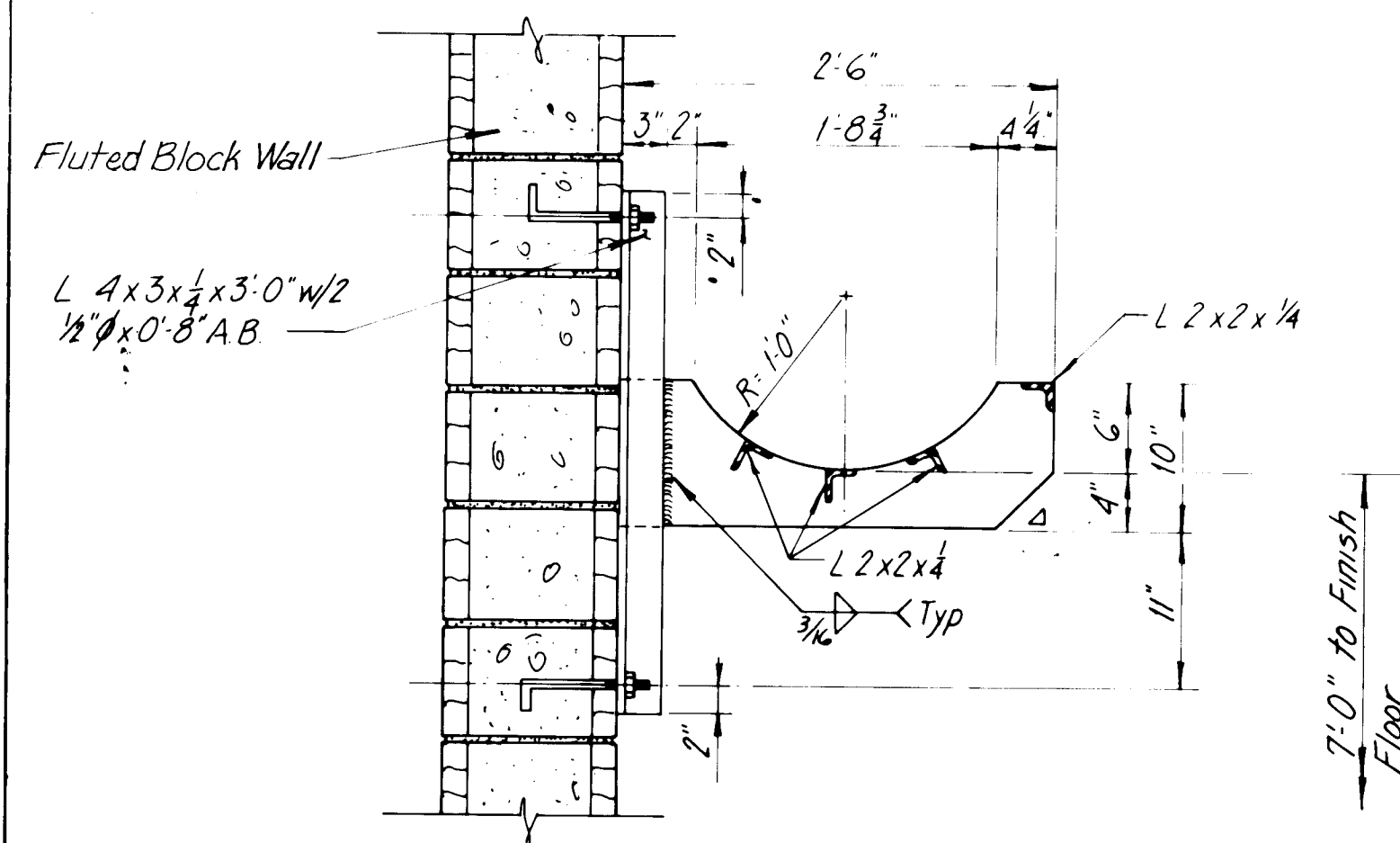
PREPARED UNDER THE DIRECTION OF  APPROVED FOR CONSTRUCTION CITY ENGINEER DATE	CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT ENGINEERING DIVISION TITLE: ATRISCO NO.5, VOLCANO CLIFFS NO.3 AND WALKER NO.1 WELL EQUIPMENT CHLORINE INJECTION, FLOW METERS, PUMP FOUNDATION AND CLEANOUT DETAILS (WALKER NO.1) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">APPROVALS</th> <th style="width: 15%;">ENGINEER</th> <th style="width: 15%;">DATE</th> <th style="width: 15%;">APPROVALS</th> <th style="width: 15%;">ENGINEER</th> <th style="width: 15%;">DATE</th> </tr> </thead> <tbody> <tr> <td>City Engineer</td> <td></td> <td></td> <td>Liquid Waste</td> <td></td> <td></td> </tr> <tr> <td>A C E - Design</td> <td></td> <td></td> <td>Traffic</td> <td></td> <td></td> </tr> <tr> <td>A C E - Hydrology</td> <td></td> <td></td> <td>Water</td> <td></td> <td></td> </tr> </tbody> </table> DRAWING NO. SHEET OF PROJECT NO. 2213 42 47	APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE	City Engineer			Liquid Waste			A C E - Design			Traffic			A C E - Hydrology			Water		
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE																				
City Engineer			Liquid Waste																						
A C E - Design			Traffic																						
A C E - Hydrology			Water																						



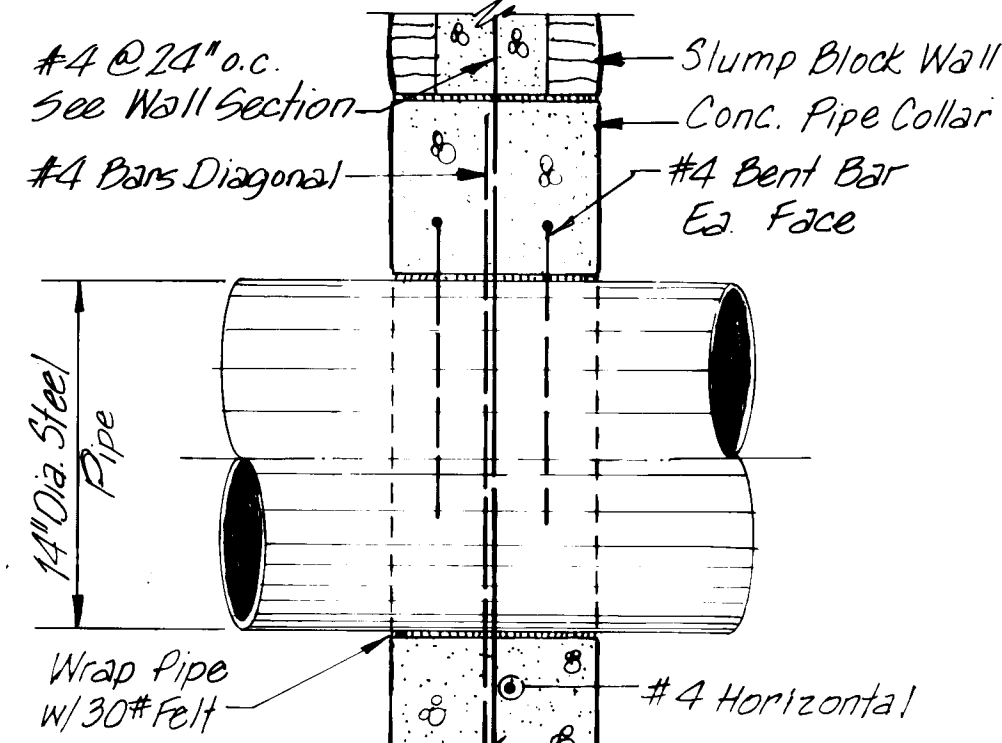
PLAN



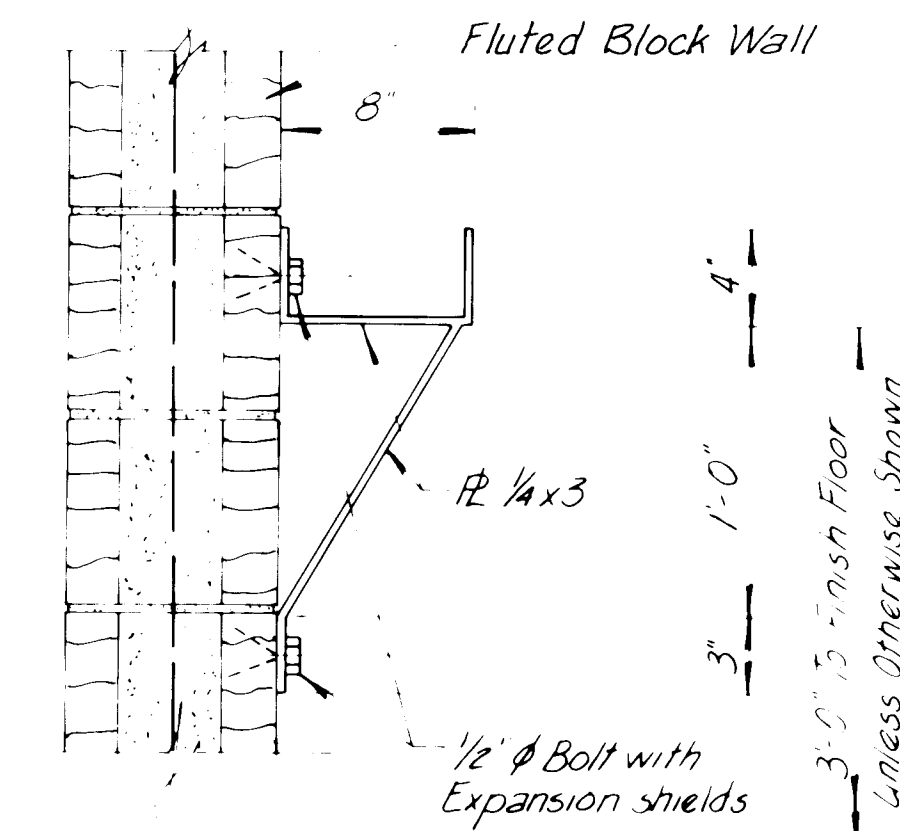
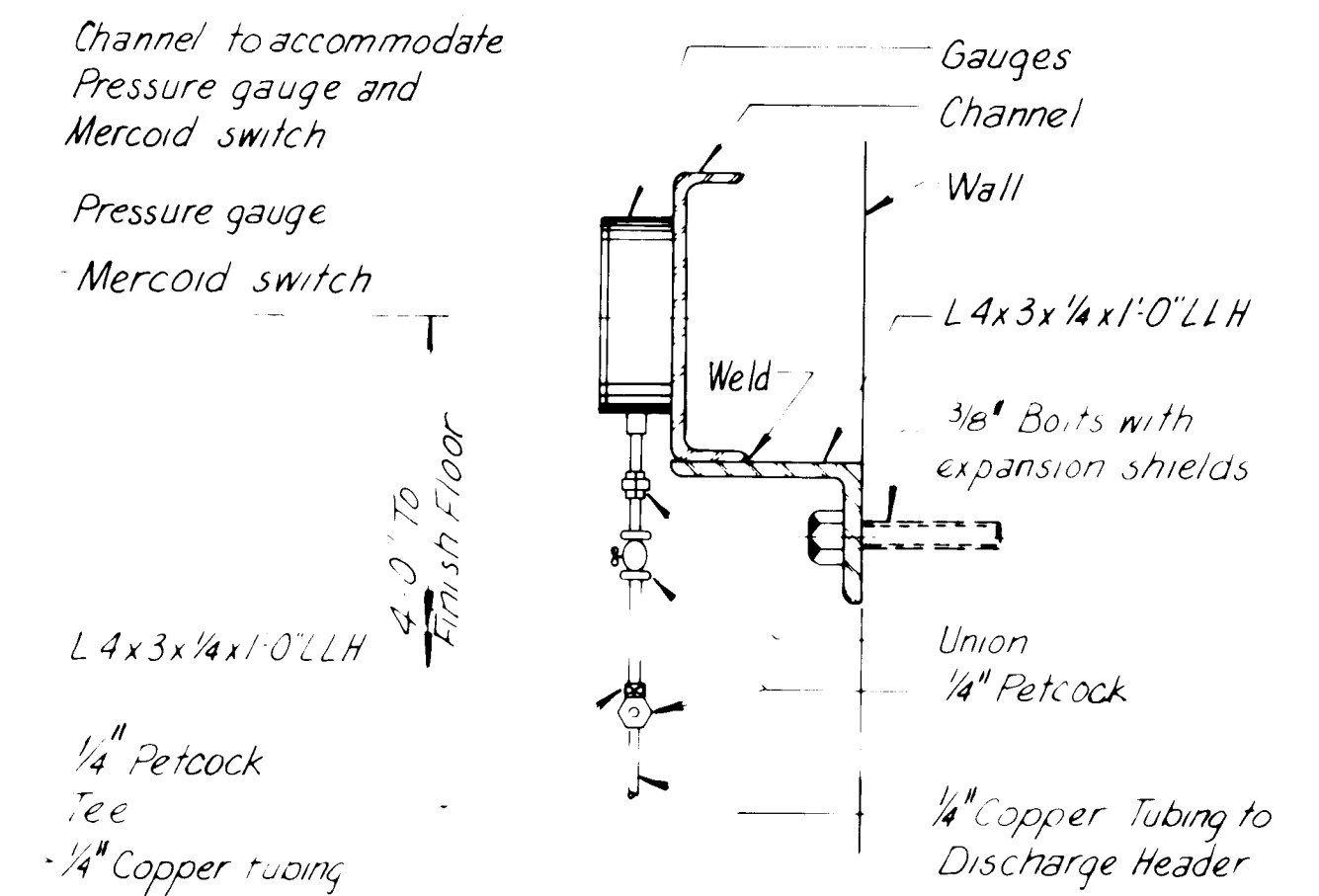
C WALL HEATER DETAIL



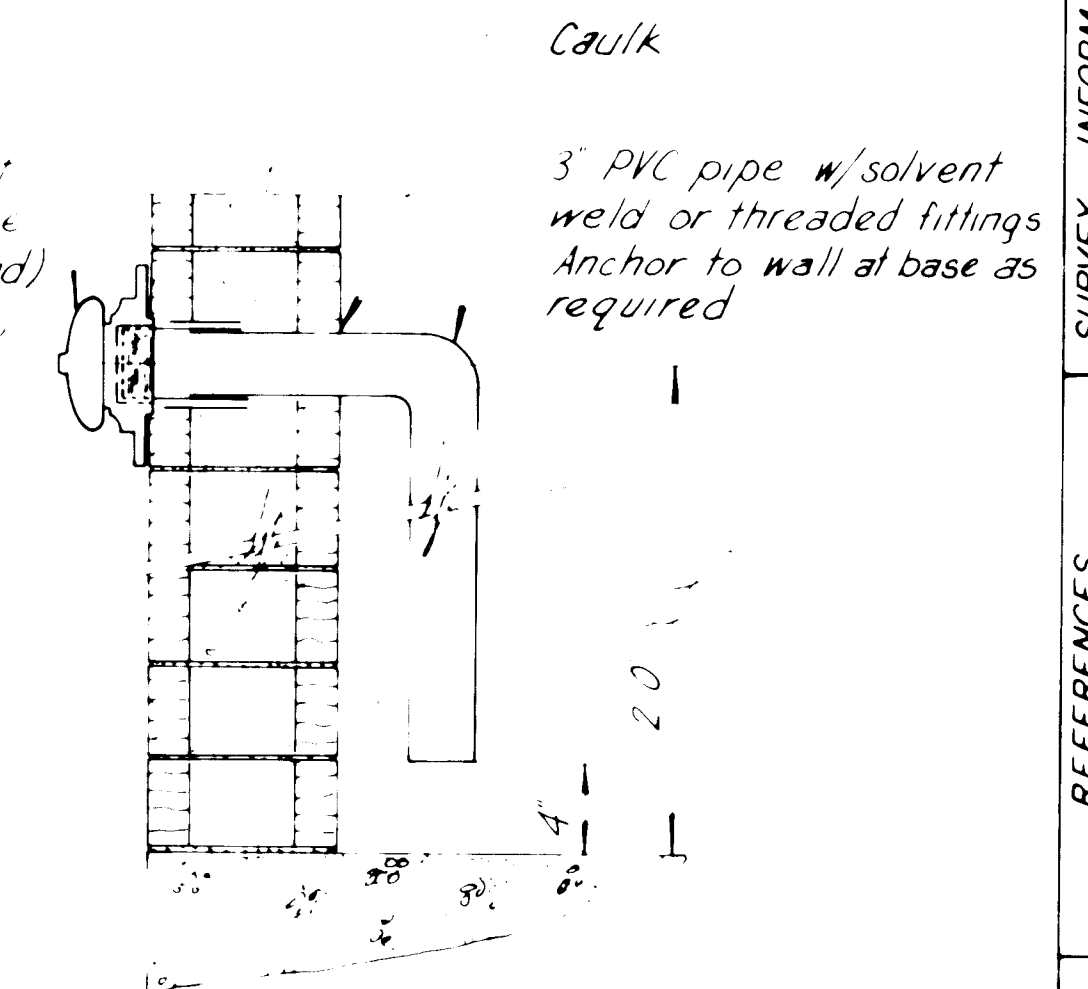
SECTION



SECTION

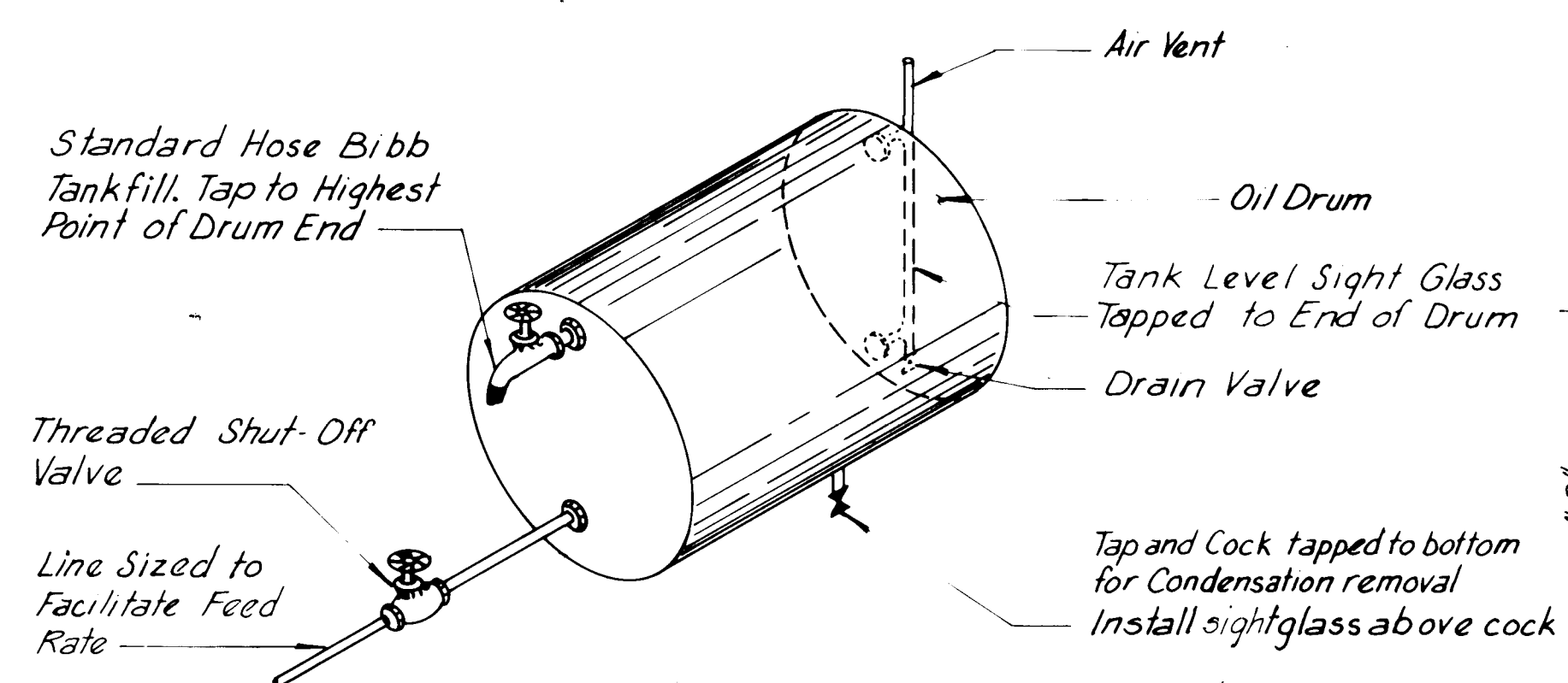
ELEVATION

SECTION

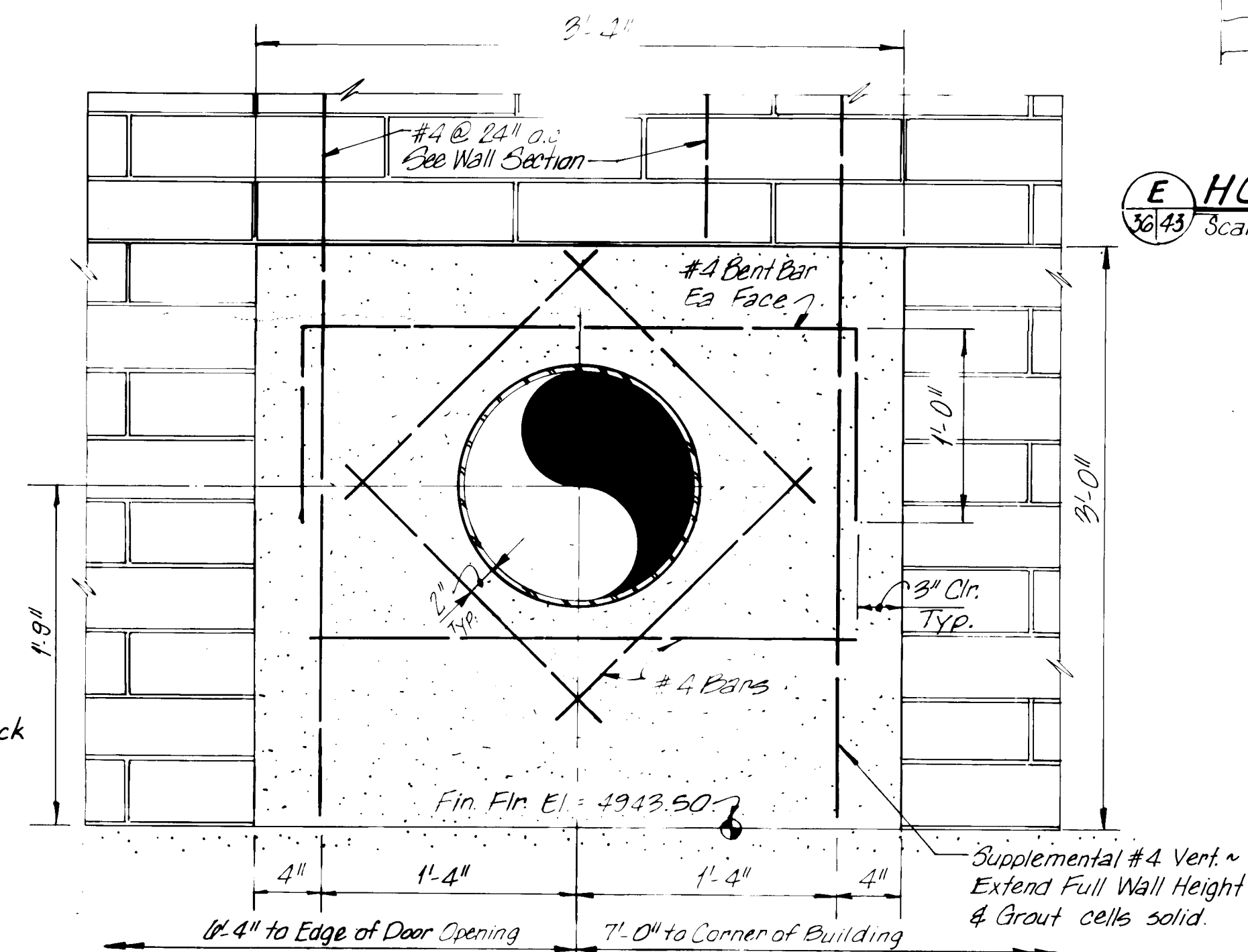


GAUGE DETAIL

OIL DRUM SUPPORT DETAIL
Scale: 1" = 1'-0"



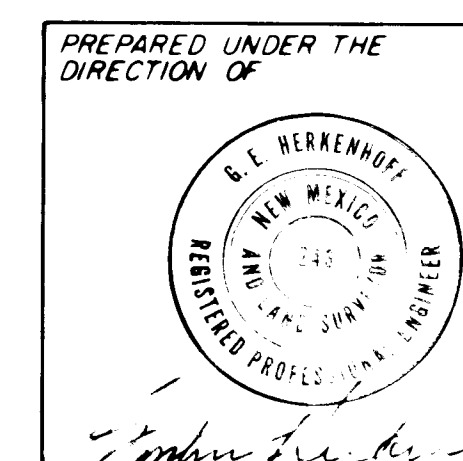
B OIL DRUM DETAIL



OUTSIDE ELEVATION
PIPE WALL PENETRATION DETAILS

E HOSE RACK DETAIL

G CHLORINE SUCTION OUTLET



**APPROVED FOR
CONSTRUCTION**

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

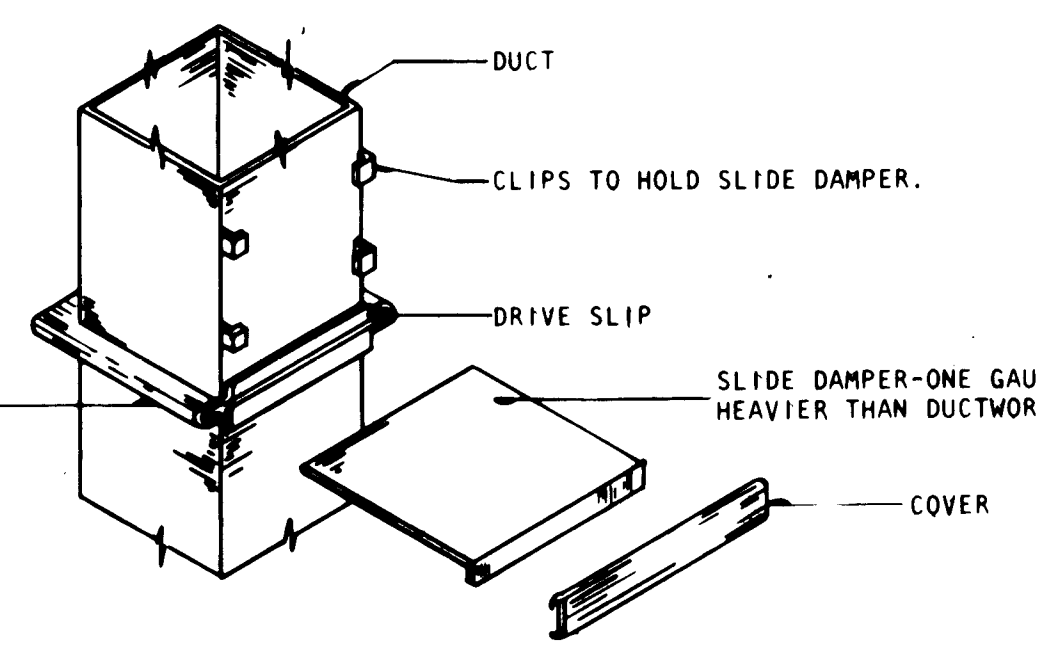
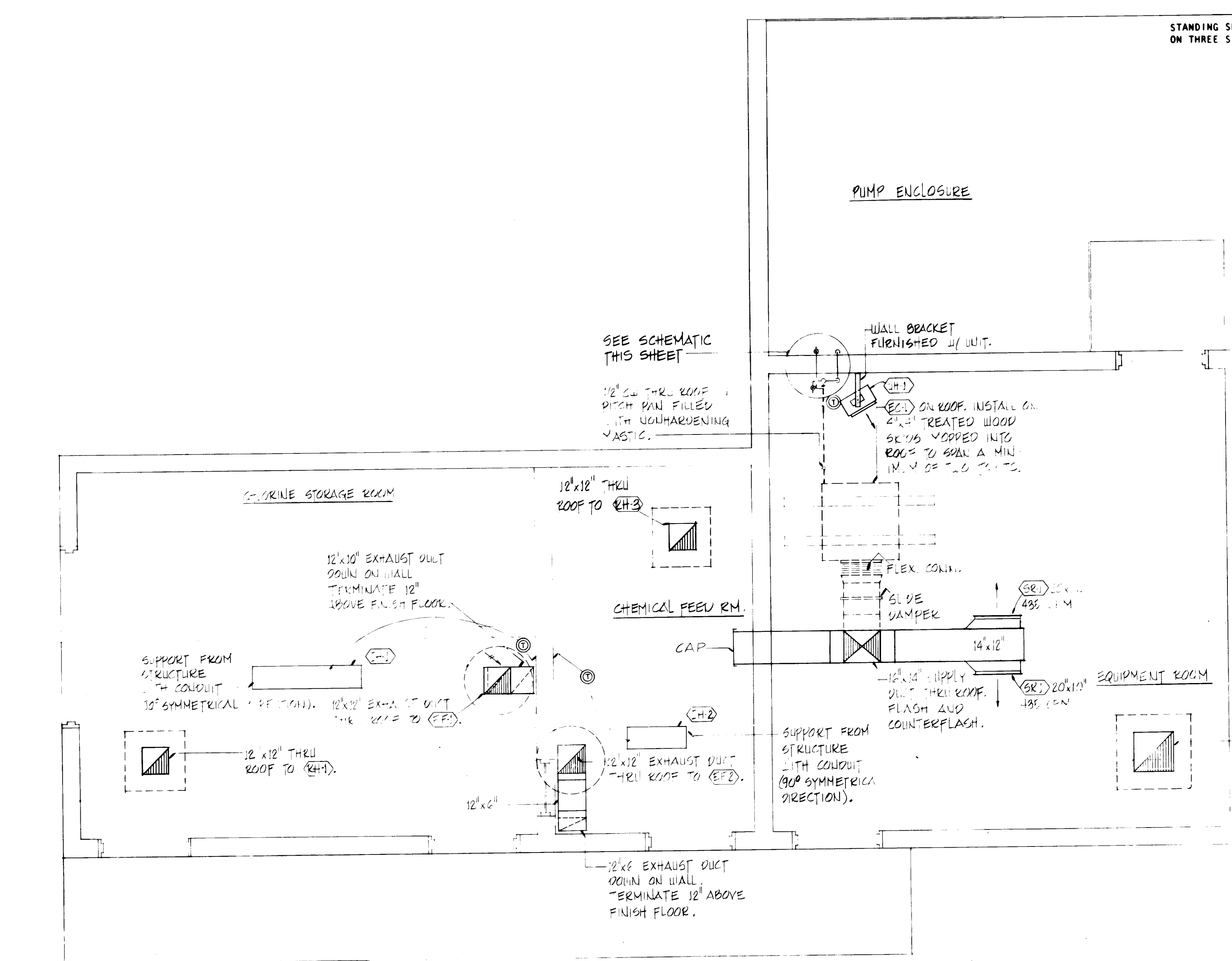
TITLE:ATRISCO NO 5, VOLCANO CLIFFS NO 3 AND WALKER NOI WELL EQUIPMENT
MISCELLANEOUS AND
EQUIPMENT SUPPORT DETAILS
(WALKER NO 1)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E - Hydrology			Water		

DRAWING NO. SHEET 43 OF 47
PROJECT NO. 2213

MECHANICAL PLAN

SCALE: 3/8" = 1'-0"



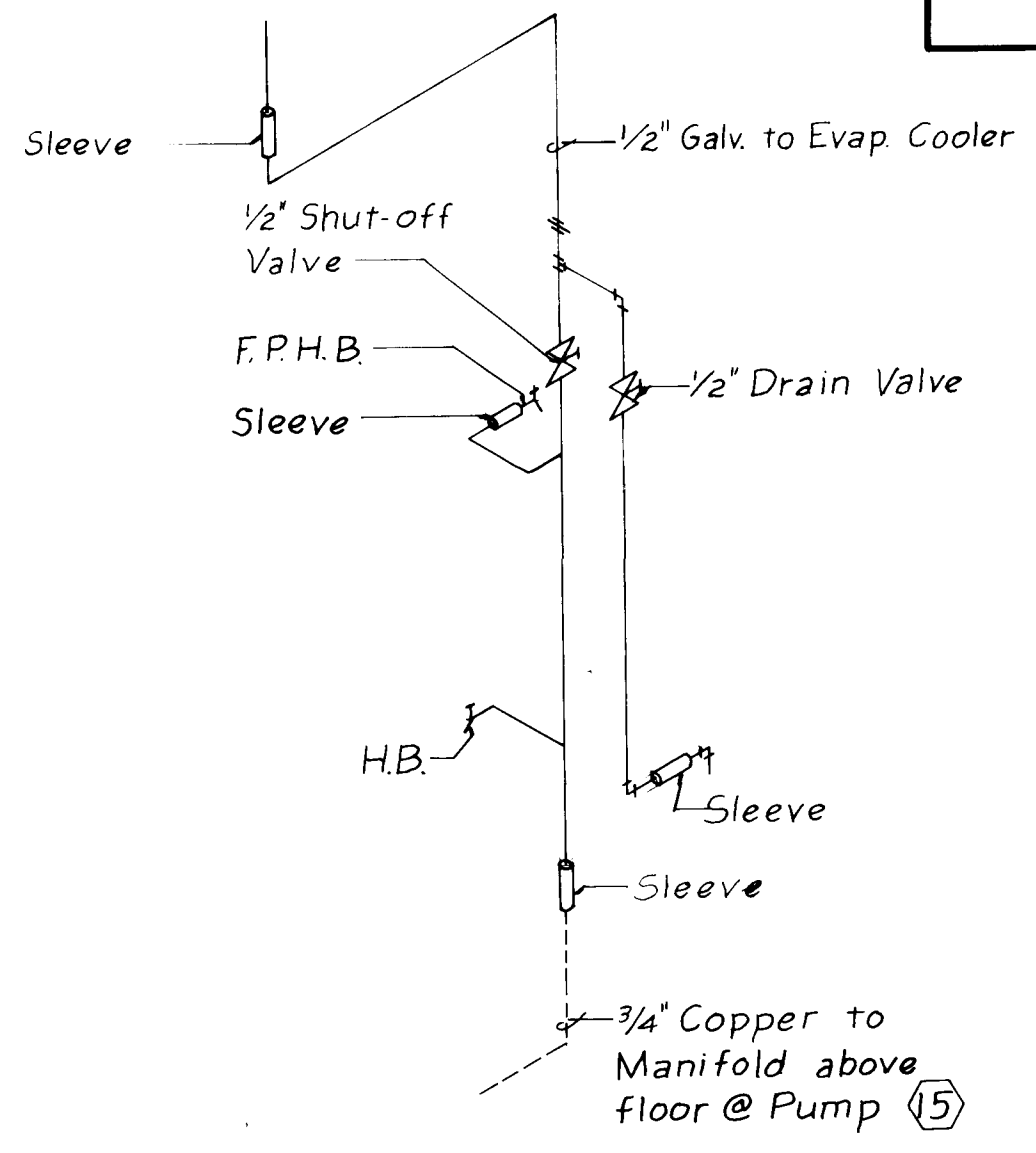
SLIDE DAMPER DETAIL
SCALE: NONE

SCHEMATIC: SUPPLY WATER TO EVAPORATIVE COOLER

26 22134486

EQUIPMENT SCHEDULE

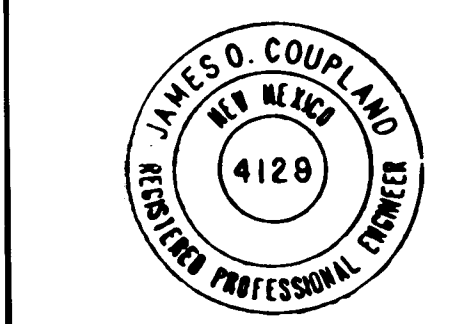
SYMBOL	DESCRIPTION
EC-1	EVAPORATIVE COOLER: DRIP TYPE EVAPORATIVE COOLER COMPLETE WITH CABINET, FILTER PAD FRAMES, BLOWER WHEEL, BLOWER HOUSING, WATER DISTRIBUTION TROUGH, BLOWER MOTOR, FLOAT VALVE, RECIRCULATING WATER PUMP, AND ALL ACCESSORIES REQUIRED FOR A COMPLETE OPERATING SYSTEM. THE CABINET SHALL BE CONSTRUCTED OF HEAVY GAUGE HOT DIPPED GALVANIZED STEEL WITH ALL SUPPORTS OF WELDED CONSTRUCTION. THE ENTIRE WATER RESERVOIR SHALL BE COATED WITH A PROTECTIVE ASPHALT COATING. COOLER EXTERIOR SHALL BE FINISHED WITH A FACTORY APPLIED ENAMEL FINISH. BLOWER MOTOR SHALL BE SPECIFICALLY DESIGNED FOR USE IN EVAPORATIVE COOLER APPLICATION WITH BEARINGS PERMANENTLY LUBRICATED AND SHALL BE FURNISHED WITH AN ADJUSTABLE SHAFT. RECIRCULATING WATER PUMP SHALL HAVE PERMANENTLY LUBRICATED BRONZE BEARINGS, WATERPROOF INSULATION AND WATER SHIELD CAP. FURNISH COMPLETE WITH SHEETMETAL WINTERIZING PANELS WITH NEOPRENE GASKET AND CLIPS FOR INSTALLATION. PAINT CABINET PER SPECS. COLOR BY ARCHITECT. MODEL NO'S ARE MCGRAW EDISON.
EF-1	EXHAUST FAN: CENTRIFUGAL TYPE ROOF EXHAUSTER WITH SPUN ALUMINUM HOUSING, ALUMINUM CURB CAP, STAINLESS STEEL FASTENINGS, PRE-LUBRICATED BALL BEARING DRIVE, VIBRATION ISOLATORS, NON-OVERLOADING ALL ALUMINUM WHEEL AND HUB DYNAMICALLY AND STATICALLY BALANCED, BACKDRAFT DAMPERS, BIRDSCREEN, DISCONNECT SWITCH, ALUMINUM WIRING POST, PREFABRICATED SOUND CURB AND WIRING TO JUNCTION BOX. MODEL NUMBERS SHOWN ARE PENN GREENHECK
EF-2	
INTAKE & RELIEF INTAKE	INTAKE HOOD: RECTANGULAR TYPE, ALL ALUMINUM CONSTRUCTION, LOW SILHOUETTE WITH INTEGRAL CURB CAP COMPLETE WITH BIRD AND INSECT SCREEN, FACTORY FURNISHED PREFAB ROOF CURB, INSULATION ON COVER AND BACKDRAFT DAMPERS. UNITS ARE GREENHECK
UH-1	UNIT HEATER: SHALL BE ELECTRIC RESISTANCE WALL MOUNTED, HORIZONTAL UNIT HEATER. THE CABINET SHALL BE 18 GAUGE STEEL WITH A FACTORY BAKED ENAMEL FINISH. INDIVIDUAL ADJUSTABLE LOUVERS FOR DIRECTIONAL AIR FLOW SHALL BE PROVIDED. THE ELECTRICAL HEATING BANK SHALL HAVE METAL SHEATH HEATING ELEMENTS AND AUTOMATIC RESET THERMAL OVERLOAD PROTECTION. MOTOR SHALL BE FULLY ENCLOSED. CONTINUOUS FAN DUTY SLEEVE BEARING TYPE WITH THERMAL OVERLOAD PROTECTION, AND VIBRATION ISOLATION. FAN SHALL BE ALUMINUM. DYNAMICALLY BALANCED AND SHALL HAVE GUARD. FURNISH COMPLETE WITH WALL MOUNTING BRACKET AND WALL MOUNTED THERMOSTAT. MODEL NUMBERS ARE CHROMALOX.
IH-1	INFRA-RED HEATER: ELECTRIC HEATERS AS MANUFACTURED BY EMERSON-CHROMALOX. UNIT SHALL BE COMPLETE WITH 90° SYMMETRICAL REFLECTOR, THERMOSTAT AND ALL ACCESSORIES REQUIRED FOR A COMPLETE OPERATING SYSTEM.
IH-2	
SR-1	SUPPLY REGISTER: KRUEGER SERIES S80H DOUBLE DEFLECTION GRILLE WITH INDIVIDUALLY ADJUSTABLE VANES, FRONT AND REAR, SET ON 3/4" CENTERS. UNIT SHALL BE ALL STEEL CONSTRUCTION WITH FACTORY APPLIED FINISH AND OPPOSED BLADE BALANCING DAMPER (OBD) BEHIND. SEE PLANS FOR SIZES.



RECEIVED DRAWING
APR 4 1986

These drawings have been reviewed based on field data and every reasonable attempt has been made to depict construction as actually performed.

Arthur J. Hunt
July 16, 1984



APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT ENGINEERING DIVISION					
TITLE: ATRISCO NO. 5, VOLCANO CLIFFS NO. 3 AND WALKER NO. 1 WELL EQUIPMENT MECHANICAL PLAN AND DETAILS (WALKER NO. 1)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		
DRAWING NO.			SHEET 44 OF 47		
PROJECT NO. 2213					

LEGEND

- Conduit (above ground)
- Conduit (under ground)
- Conduit Turning Toward Viewer
- Conduit Turning Away From Viewer
- #1/0 AWG Bare Copper Ground Wire
- 3/4" x 10'-0" Copper Ground Rod
- Junction Box
- No-Flow Electrode
- Thermostat
- Ambient Air Temperature Sensor
- Flood Detector
- Wash Line Leak Detector
- Warning Horn

NOTES (CONT.)

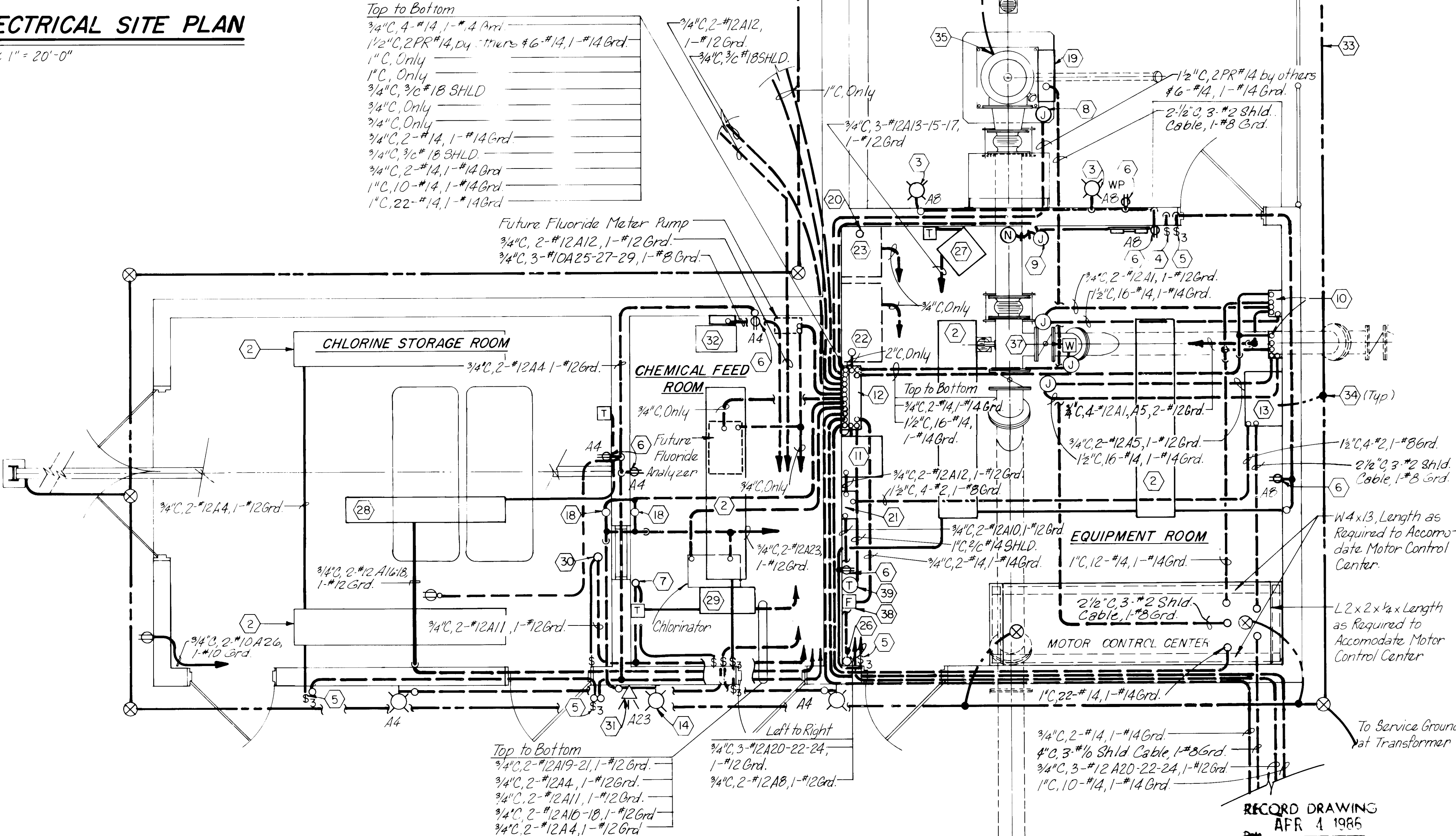
- 39 Install ambient air temperature sensor on wall 5'-0" above floor.
- 40 Connect 1" conduits to capped existing conduits from existing wireway on reservoir.

NOTES

- 1 All conduit is shown diagrammatically. Actual conduit routing to be determined by contractor.
- 2 Ceiling mount industrial fluorescent "Lithonia" #LA296, 120V Apertured (2) F96 lamps.
- 3 Mount a 100W Appleton OBVW106 Lighting fixture with a 100W white light bulb 7'-0" above floor on wall of well house.
- 4 Install a single pole wall switch 4'-0" above floor.
- 5 Install three way wall switch 4'-0" above floor.
- 6 Install a duplex receptacle 4'-0" above floor.
- 7 Extend conduit through roof to 1/2 HP, 115V, 1Ø exhaust fan. Final connections to be liquid-tight flexible conduit. See detail sheet 40.
- 8 Install WP junction box for control connections to the drawdown transmitter, high bearing temperature detector and emergency stop pushbutton. Final connections to be liquid-tight flexible conduit.
- 9 Install WP junction box for control connections to the high discharge pressure switch and the no flow electrode. Final connections to be liquid tight flexible conduit.
- 10 Motorized valve starter with "Open-Stop-Close" push buttons, open and close indicating lights and a local remote switch. May be located on valve operator.
- 11 Instrument Panel with drawdown indicator, well flow totalizer/indicator and bypass valve motor control.
- 12 RTU terminal box with Square D "lay-in" type wireway below. Conduits shall stub-up 24" above floor into wireway. Install one conduit sized for number of conductors between the wireway and terminal box. Install NEMA 4 enclosure with 120 terminals minimum for RTU terminal box. Top of terminal box not to exceed 6'-6" from floor.
- 13 Install 4160V 120/208V, 30KVA floor mounted (with 2 inch feet minimum) dry type transformer.
- 14 Install 100W Appleton OBVW106 light fixture with 100W interior coated red light bulb for chlorine leak alarm warning. Mount on wall 7'-0" above floor.
- 15 Contractor shall provide concrete for pad, excavation, conduit and backfilling per PNM standards. Pad mount 12, 470 V/4160V transformer, 5KV load break switch and new metering enclosure. See specifications and one-line diagram for details.
- 16 Remove existing safety switches and board. Bypass valve MOV shall be powered from Power Panel 'A' in Well House No. 1. Tie into existing conduit and re-pull wire to Panel 'A'.
- 17 Install GFI receptacle in WP junction box in meter pit. Control shall be hard-wired to flow transmitter.
- 18 Chlorine detectors shall be wired in parallel. Either detector will trigger warning light & warning horn. Leak test light and outside warning light will be wired in parallel.
- 19 Pump motor terminal enclosure (NEMA 4) with surge protection. Stub conduit at least 6" above ground. Make final connections with liquid tight flexible conduit.
- 20 Penetrate roof 6" from wall with conduit sleeve for future radio antenna connection. See detail sheet 40.
- 21 Install Power Panel 'A' with top of panel not more than 6'-6" above floor.
- 22 Stub and cap conduits from RTU terminal box and Power Panel 'A' for future RTU.
- 23 Stub and cap conduit from Power Panel 'A' for future radio.
- 24 Make parallel connections to "Open-Stop-Close" push-buttons and open and close indicating lights for remote control at Instrument Panel in well house.
- 25 Connect to KYZ terminal board adjacent to Watt-Hour meter for future energy monitoring.
- 26 Extend conduit through roof for evaporative cooler connection. Final connection to cooler to be made with liquid tight flexible conduit. Penetrate roof 6" from wall with conduit sleeve. See detail sheet 40.
- 27 5KW, 208V, 3Ø wall mounted heater. See mechanical sheet 44.
- 28 4KW, 208V, 1Ø heater. See mechanical sheet 44.
- 29 2KW, 208V, 1Ø heater. See mechanical sheet 44.
- 30 Extend conduit through roof to 1/4 HP, 115V, 1Ø exhaust fan. Final connections to be liquid tight flexible conduit. See detail sheet 40.
- 31 Mount weatherproof chlorine leak warning horn on wall 7'-0" above floor.
- 32 2 HP, 208V, 3Ø hydropneumatic pump and starter disconnect as supplied with chlorination equipment.
- 33 Ground counterpoise system shall be buried 3'-0" deep minimum.
- 34 All splices or taps in ground counterpoise shall be cadwelded. All tap conductors shall be #2 AWG.
- 35 Ground well casing to equipment ground system.
- 36 See one-line diagram sheet 46 for service ground system.
- 37 Pressure tap underside of wash line elbow and install wash line leak detector.
- 38 Install flood detector 1/2" above floor.

ELECTRICAL SITE PLAN

Scale: 1" = 20'-0"



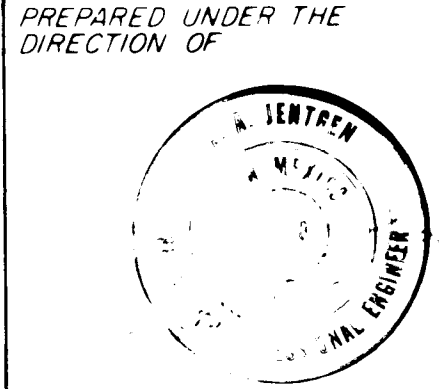
ELECTRICAL BUILDING PLAN

Scale: 3/8" = 1'-0"

RECORD DRAWING

APR 4 1986

These drawings have been revised based on field data. Every reasonable attempt has been made to depict construction as actually performed.



APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT ENGINEERING DIVISION					
TITLE: ATRISCO NO. 5, VOLCANO CLIFFS NO. 3, AND WALKER NO. 1 WELLS (WALKER NO. 1)					
ELECTRICAL PLANS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E - Hydrology			Water		
DRAWING NO. PROJECT NO 2213			SHEET 45 OF 47		

NOTES

- Magnetic motor starter shall be three leg autotransformer reduced voltage start tapped at 60% with vacuum contactors.
- All fuse interrupting capability and bus bracing shall be rated for a minimum 31,000 A symmetrical fault current
- Contractor shall complete Panel Schedule 'A' with actual loads when panel is balanced in the field.

ONE-LINE LEGEND

A	Ammeter	Overload
AS	Phase-Amp Selector Switch	
ETM	Elapsed Time Meter	
HOA	Hand-Off-Automatic Switch	
V	Voltmeter	
VS	Phase-Volt Selector Switch	
R	Reset Push Button	
CS	Control Switch (Breaker Handle)	

INSTRUMENT LEGEND

○	Local Mounted Instrument
⊙	Instrument Panel Mounted Instrument
AE _{CL}	Analyzer Element (Chlorine)
AE _{FLOOD}	Flood Detector
FE	Flow Element
FI	Flow Indicator
FP	Flow Point
FQ	Flow Totalizer
FS	Flow Switch
FT	Flow Transmitter
LT	Level Transmitter
PG	Pressure Gauge
PSH	High Pressure Switch
TE _{AIR}	Ambient Air Temperature Element
TSH	High Bearing Temperature Switch
YE	Pulse Initiator

PIPING LEGEND

ZZ	Butterfly Valve
CV	Check Valve
M	Motor Operated Valve
—	Process Line
---	Instrument Electrical Line

26 22134686

PREPARED UNDER THE DIRECTION OF



APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT ENGINEERING DIVISION				
TITLE: ATRISCO NO. 5, VOLCANO CLIFFS NO. 3, AND WALKER NO. 1 WELLS P & ID, ONE LINE DIAGRAM & PANEL SCHEDULE (WALKER NO. 1)				
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER
City Engineer			Liquid Waste	
A.C.E. Design			Traffic	
A.C.E. Hydrology			Water	
DRAWING NO. PROJECT NO. 2213			SHEET 47	

PANEL 'A'

3Ø, 4 WIRE, S/N, 120/208V, 80A MAIN BREAKER AND 30 CIRCUITS

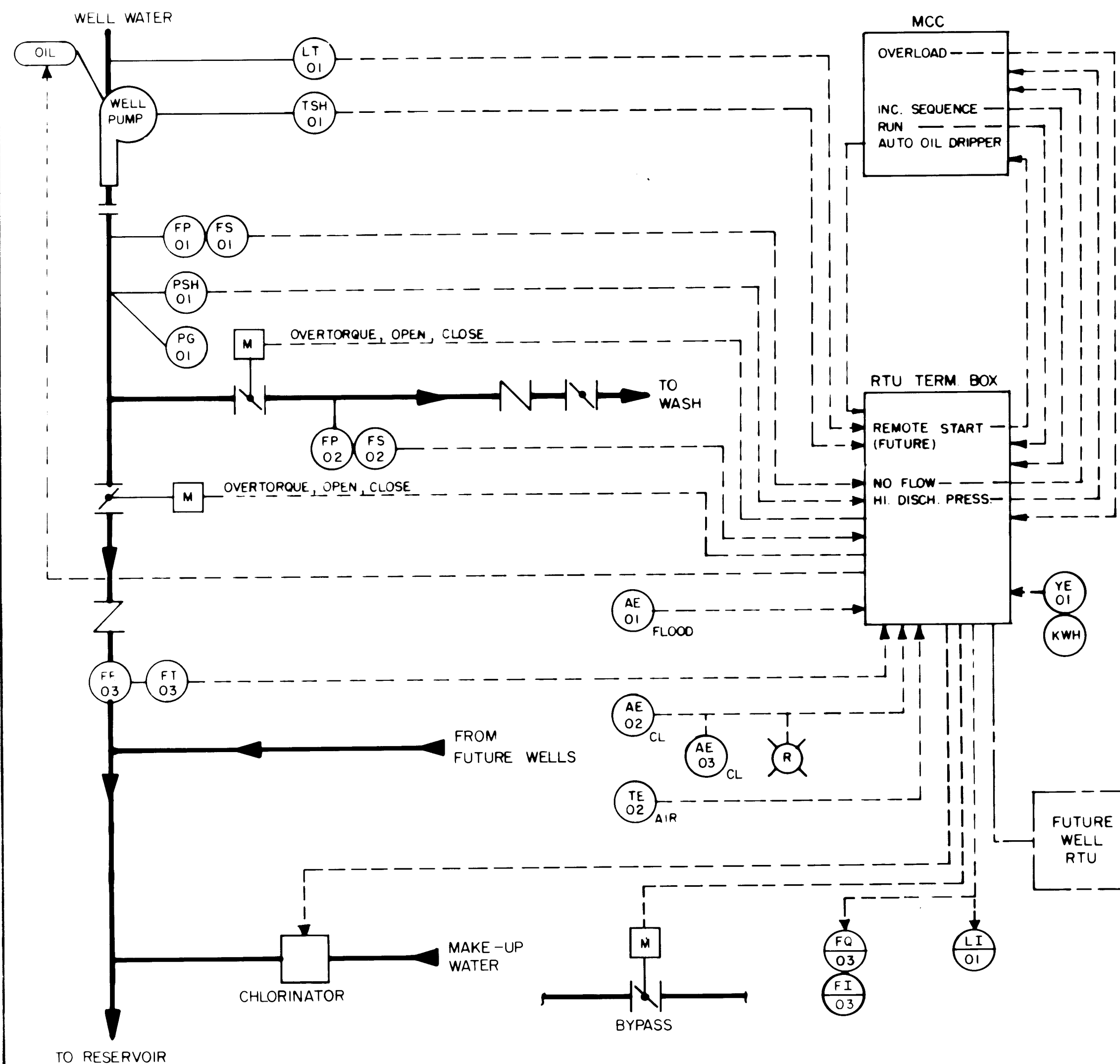
CKT.	RTNG.	LOAD DESCRIPTION	LOAD			LOAD DESCRIPTION	RTNG.	CKT.
			ØA	ØB	ØC			
1	20A	Wash MOV				Spare	20A	2
3	20A	Spare				Lighting and Receptacles Chemical Feed Chlorine Storage Rooms	20A	4
5	20A	Line MOV				Flood Detector and Wash Line Leak Detector	20A	6
7	20A	Spare (Future Radio)				Lighting and Receptacles Equipment Room & Pump Enclosure	20A	8
9	20A	Spare (Future RTU)				Evaporative Cooler	20A	10
11	20A	Exhaust Fans				Well Flowmeter, GFI receptacle Well Flow Totalizer/Indicator, Downdraw Transducer/Indicator	20A	12
13						Spare	20A	14
15	20A	Equipment Room Heater				Chlorine Storage Room Heater	20A	16
17								18
19	20A	Chemical Feed Room Heater						20
21						Bypass MOV	20A	22
23	20A	Chlorine Leak Detectors and Chlorinator						24
25						Chlorine Removal Receptacle Chlorine Storage Room	30A GFI	26
27	30A	Hydropneumatic Pump				Spare	20A	28
29						Spare	20A	30
TOTAL LOAD								

PANEL SCHEDULE

LOADS SHALL BE BALANCED IN THE FIELD

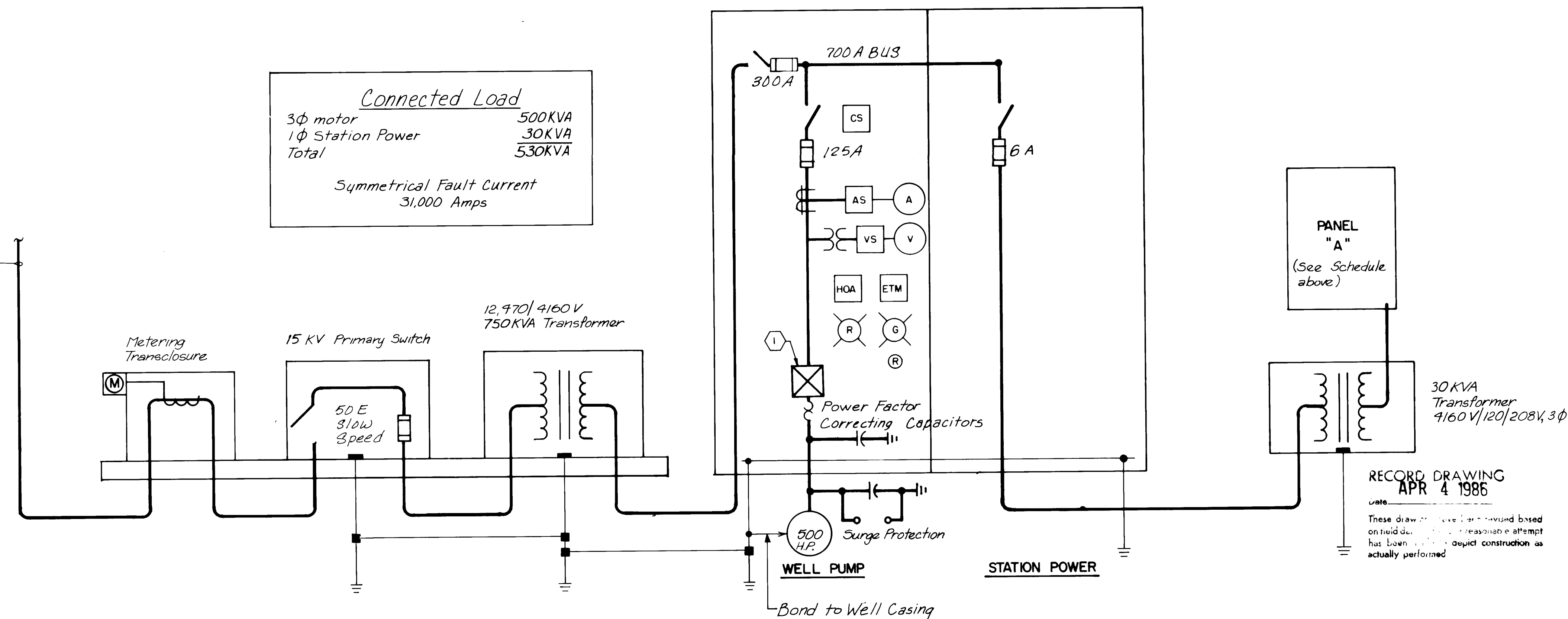
PIPING & INSTRUMENT DIAGRAM

NOT TO SCALE



Connected Load	
3Ø motor	500KVA
1Ø Station Power	30KVA
Total	530KVA
Symmetrical Fault Current 31,000 Amps	

4" C For Power Riser per PNM Standards



ONE LINE DIAGRAM

NOT TO SCALE

	AIR VALVE
	ISOLATION VALVE
	WATER VALVE
	BACKFLOW PREVENTER
	CHECK VALVE

100-44848-48 W

Sta 0+73.78

- 1 48" Butterfly Valve \
- 1 54" x 48" Reducer
- 1 54" x 54" x 54" Tee
- 2 54" Butterfly Valves
- 3 Type B Valve Boxes
- 1 54" Blind Flange
- (3/4" Plywood Placed On
- 54" Butterfly Valve)

$$1 - 2 + 3 - 4 + \cdots + (-1)^{n+1}n = \frac{1}{2}n(n+1).$$

1000



100

Sta 5+17.25
1 36" x 36" x 18" Tee
1 36" Butterfly Valve
1 18" Butterfly Valve
2 Type B Valve Boxes

Sta 0+72.58
12.4 x 90° R. ...
Sta 4+53.2
15.4 x 45° Bend

Sta 0+0.00
1 36" x 36" x 8" Tee
2 36" x 24" Reducer
1 24" Blind Flange

4" PVC Drain Line •

6.5 M.G. (CONCRETE) RESERVOIR

Sta. 4+64.94

1.54' (branch) x 36" (run) x 36" (run)

x22 1/2 Bend (special fitting)

1.36 Plug

See detail sheet 10

Tank Floor EL. 5

Overflow EL. 57

Tank Floor El. 5687.0
Overflow El. 5710.0

NOTE: Pay Limits for Conc. Res. shall be 5'-0" outside of Ringwall

LAYOUT PLAN

RECORD DRAWING
FFB 8 1963

[illegible]

GRAPHIC SCALE

C, g/l	10°C (P, g/l)	20°C (P, g/l)	30°C (P, g/l)	40°C (P, g/l)	50°C (P, g/l)
0	100	80	60	40	20
10	90	70	50	30	15
30	75	55	35	20	10
50	60	40	25	15	5
70	45	30	15	10	0

2	6	2	2	1	3	4	7	8	7	A
---	---	---	---	---	---	---	---	---	---	---

ALBUQUERQUE, NEW MEXICO

WALKER RESERVOIR

LOT NO 2

CONCRETE RESERVOIR
SITE PLAN

GORDON HERKENHOFF & ASSOCIATES, INC.
ENGINEERS ARCHITECTS PLANNERS
ALBUQUERQUE, N.M. PHOENIX, ARIZONA SAN ANTONIO, TEXAS

ALBUQUERQUE, N. M. FARMINGTON, N. M. ALBUQUERQUE, N. M.

~~SHEET 14 OF 22~~
FIGURE NO. 1

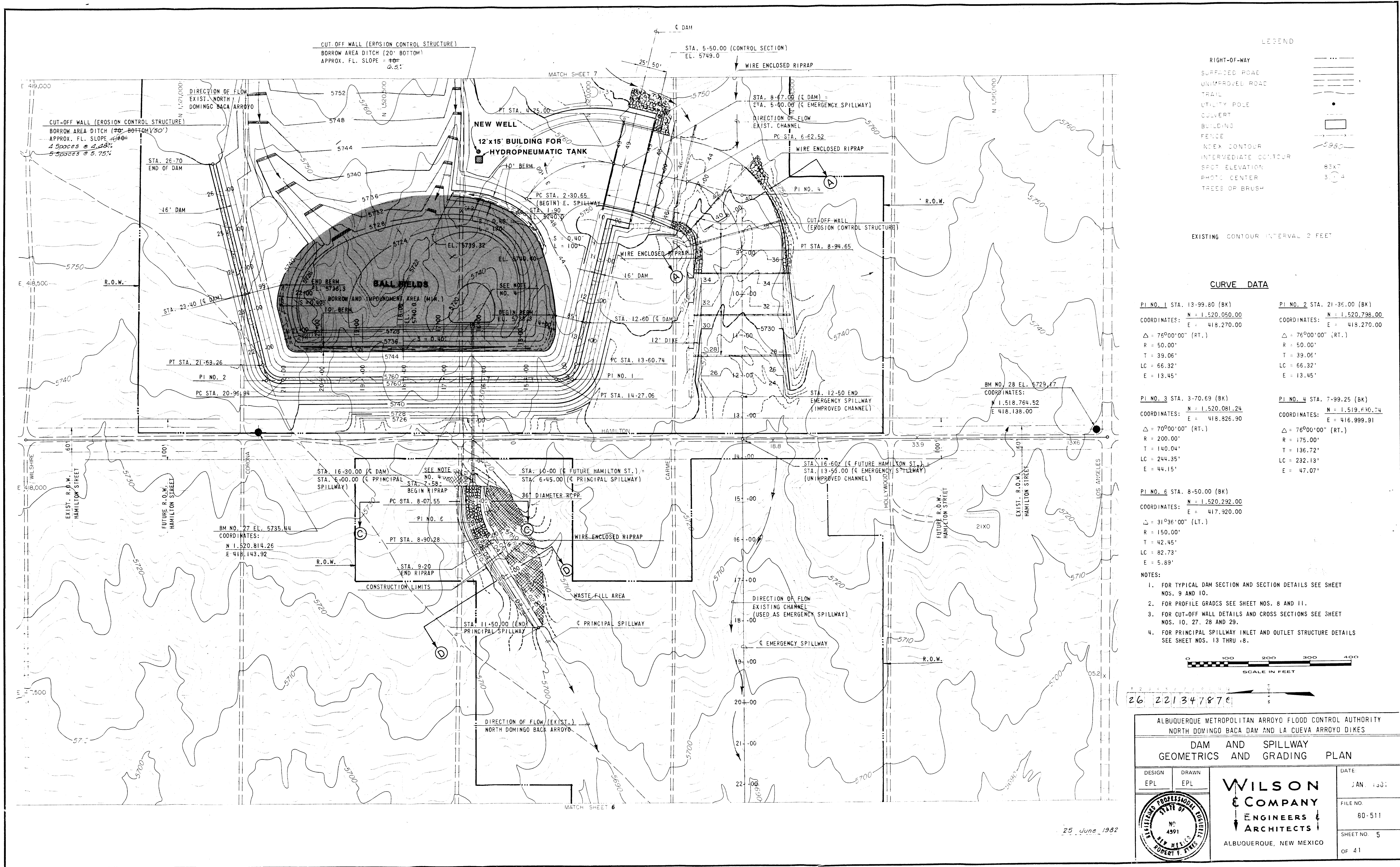


FIGURE NO. 3